



**NUCOR STEEL
FLOWOOD, MS**

**2024 ROLL STAND GEARBOX
INSPECTION REPORT**

September 24, 2024

Table of Contents

Field Service Ticket - <i>Roll Mill</i>		1.0
Gearbox Inspection - <i>Roll Mill</i>	Gearbox Inspection: <i>STAND 16 - 153656</i>	2.0
Gearbox Inspection - <i>Roll Mill</i>	Gearbox Inspection: <i>CROP SHEAR - 153656</i>	3.0
Gearbox Inspection - <i>Roll Mill</i>	Gearbox Inspection: <i>10 VERTICAL - 153656</i>	4.0
Gearbox Inspection - <i>Roll Mill</i>	Gearbox Inspection: <i>STAND 8 - 153656</i>	5.0
Gearbox Inspection - <i>Roll Mill</i>	Gearbox Inspection: <i>4 INTERMEDIATE - 153656</i>	6.0
Gearbox Inspection - <i>Roll Mill</i>	Gearbox Inspection: <i>2A VERTICAL - 153656</i>	7.0
Gearbox Inspection - <i>Roll Mill</i>	Gearbox Inspection: <i>1 INTERMEDIATE - 153656</i>	8.0
Gearbox Inspection - <i>Roll Mill</i>	Gearbox Inspection: <i>12 VERTICAL STAND - 153656</i>	9.0
Gearbox Inspection - <i>Roll Mill</i>	Gearbox Inspection: <i>STAND 5 - 153656</i>	10.0
Gearbox Inspection - <i>Roll Mill</i>	Gearbox Inspection: <i>2 MAIN STAND - 153656</i>	11.0
Gearbox Inspection - <i>Roll Mill</i>	Gearbox Inspection: <i>STAND 9 - 153656</i>	12.0
Gearbox Inspection - <i>Roll Mill</i>	Gearbox Inspection: <i>STAND 6 - 153656</i>	13.0
Gearbox Inspection - <i>Roll Mill</i>	Gearbox Inspection: <i>FLYING SHEAR INTERMEDIATE - 153656</i>	14.0
Gearbox Inspection - <i>Roll Mill</i>	Gearbox Inspection: <i>FLYING SHEAR MAIN - 153656</i>	15.0
Gearbox Inspection - <i>Roll Mill</i>	Gearbox Inspection: <i>3 INTERMEDIATE - 153656</i>	16.0
Gearbox Inspection - <i>Roll Mill</i>	Gearbox Inspection: <i>STAND 11 - 153656</i>	17.0
Gearbox Inspection - <i>Roll Mill</i>	Gearbox Inspection: <i>STAND 14 90 DEGREE - 153656</i>	18.0
Gearbox Inspection - <i>Roll Mill</i>	Gearbox Inspection: <i>STAND 13 - 153656</i>	19.0
Gearbox Inspection - <i>Roll Mill</i>	Gearbox Inspection: <i>ROLL STAND 1 MAIN - 153656</i>	20.0
Gearbox Inspection - <i>Roll Mill</i>	Gearbox Inspection: <i>2 STAND INTERMEDIATE - 153656</i>	21.0
Gearbox Inspection - <i>Roll Mill</i>	Gearbox Inspection: <i>10 INTERMEDIATE 1 - 153656</i>	22.0
Gearbox Inspection - <i>Roll Mill</i>	Gearbox Inspection: <i>14 VERTICAL - 153656</i>	23.0
Gearbox Inspection - <i>Roll Mill</i>	Gearbox Inspection: <i>3 STAND MAIN - 153656</i>	24.0
Gearbox Inspection - <i>Roll Mill</i>	Gearbox Inspection: <i>STAND 12 - 153656</i>	25.0
Gearbox Inspection - <i>Roll Mill</i>	Gearbox Inspection: <i>STAND 15 - 153656</i>	26.0
Gearbox Inspection - <i>Roll Mill</i>	Gearbox Inspection: <i>STAND 7 - 153656</i>	27.0
Gearbox Inspection - <i>Roll Mill</i>	Gearbox Inspection: <i>STAND 14 - 153656</i>	28.0
Gearbox Inspection - <i>Roll Mill</i>	Gearbox Inspection: <i>1A STAND - 153656</i>	29.0

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.



Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

Field Service Ticket

FolderID: 153656
FormID: 21578186

Nucor Jackson (003555)

3630 Fourth St
Flowood, MS 39232

Roll Mill

*Performed By: Kevin Maxwell
Date Completed: 09/17/2024*

Priorities Found:

Job Information

- | | |
|---------------------------------|--------|
| 1. Hi-Speed Job Number | 153656 |
| 2. Asset Type | |
| 3. Make | |
| 4. Model | |
| 5. Serial Number | |
| 6. Customer Asset ID/Asset Name | |

Service Call Details

- | | |
|---------------------------------------|--|
| 7. Service Objectives | 2024 Roll Stand Gearbox Inspection Survey |
| 8. Services Performed | Performed 2024 Roll Stand Gearbox Inspection Survey at Roll Mill |
| 9. Service Technician Recommendations | |

Approval Signatures

- | | |
|----------------------------------|---------------|
| 10. Service Technician Signature | Kevin Maxwell |
|----------------------------------|---------------|

- | | |
|------------------------|---------------|
| 11. Customer Signature | Cliff Johnson |
|------------------------|---------------|



Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

Gearbox Inspection

Nucor Jackson (003555)

3630 Fourth St
Flowood, MS 39232

FolderID: 153656
FormID: 21627285



Gearbox Inspection

Completed by: Kevin Maxwell on 09/24/2024

Location: Roll Mill

Serial Number: STAND 16

Job Number: 153656

Description: Roll Stand 16

Customer Name:: Nucor Steel

Location : Flowood, MS

Contact:: Cliff Johnson

Manufacturer:: Danieli

Ratio:: NA

Serial#:: NA

Type:: NA

Model#:: NA

Application ID:: Stand 16

Coupling Type: : Gear

Priorities Found:

Gearbox Visual Inspection

- | | |
|------------------------------|------------|
| 1. Date Inspection Performed | 09/17/2024 |
| 2. Oil Condition | |

Wear

Physical

Contaminants

acceptable



Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

Printed on 09/24/2024

Powered by [INSPECTALL](#)

2.0

3. Gears:

Wear
acceptable

Physical

Contaminants



4. Seals:

Wear
acceptable

Physical

Contaminants


5. Environmental Conditions

Ambient Temperature (F)

Humidity

Contaminants

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

6. Physical Issues		
Signs of Excessive Heat?	Signs of Lubricant Leaks?	Contaminants
7. Other conditions		
Gearbox Temperature (F)	Moisture Presence	Contaminants
Gearbox Inspection & Evaluation Checklist		
● 8. Primary drive rotates input shaft in correct direction		(Yes) Yes
● 9. Condition of Machinery Guards if Present		(NA)
● 10. Condition of Coupling Guards if Present		(NA)
11. Type of Coupler:		
12. Coupling Alignment		
● 13. Condition of Housing		(Pass) Acceptable
● 14. Condition of Mounting Hardware		(Pass) Acceptable
● 15. Breather Vent Installed:		(Pass) Present/Acceptable
● 16. Condition of Piping & connections (if forced lube system installed)		(Pass) Acceptable
● 17. Condition of switches, alarms, heaters, coolers or other devices		(NA)
● 18. Condition of inspection covers		(Pass) Present/Acceptable
● 19. Condition of seals & bearings		(Pass) Acceptable
● 20. Gearbox Oil Level		(NA)
● 21. Gearbox Oil Level [COPY]		(NA)
22. Type and Grade of Specified Lubricant		
● 23. Correct type and grade of specified lubricant		(NA)
● 24. Appearance of lubricant		(NA)
● 25. Free rotation of shafts		(Yes) Yes
● 26. Condition of Input shaft		(Pass) Acceptable
● 27. Gear tooth condition		(Pass) Acceptable
● 28. Degree of Gear Wear		(None) None/New
● 29. Gear tooth Contact		(Pass) Acceptable
Gearbox Summary		
30. Summary of Issues and Overall Condition of the Gearbox <i>No issues found</i>		
31. Technician Signature		Kevin Maxwell
		



Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

Gearbox Inspection

Nucor Jackson (003555)

3630 Fourth St
Flowood, MS 39232

FolderID: 153656
FormID: 21627273



Gearbox Inspection

Completed by: Kevin Maxwell on 09/24/2024

Location: Roll Mill

Serial Number: CROP SHEAR

Job Number: 153656

Description: Crop Shear

Customer Name:: Nucor Steel

Location : Flowood, MS

Contact:: Cliff Johnson

Manufacturer:: NA

Ratio:: NA

Serial#:: NA

Type:: NA

Model#:: NA

Application ID:: Crop Shear

Coupling Type: : Gear

Priorities Found:

Gearbox Visual Inspection

- | | |
|------------------------------|------------|
| 1. Date Inspection Performed | 09/16/2024 |
| 2. Oil Condition | |

Wear

Physical

Contaminants

acceptable






Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.


Printed on 09/24/2024

Powered by [INSPECTALL](#)

3.0

3. Gears:		
Wear acceptable	Physical	Contaminants
		
		
4. Seals:		
Wear acceptable	Physical	Contaminants
5. Environmental Conditions		
Ambient Temperature (F)	Humidity	Contaminants
6. Physical Issues		
Signs of Excessive Heat?	Signs of Lubricant Leaks?	Contaminants
7. Other conditions		
Gearbox Temperature (F)	Moisture Presence	Contaminants
Gearbox Inspection & Evaluation Checklist		
8. Primary drive rotates input shaft in correct direction		(Yes) Yes
9. Condition of Machinery Guards if Present		(Pass) Acceptable
10. Condition of Coupling Guards if Present		(NA)
11. Type of Coupler:		
12. Coupling Alignment		
13. Condition of Housing		(Pass) Acceptable

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

● 14. Condition of Mounting Hardware	(Pass) Acceptable
● 15. Breather Vent Installed:	(NA)
● 16. Condition of Piping & connections (if forced lube system installed)	(Pass) Acceptable
● 17. Condition of switches, alarms, heaters, coolers or other devices	(NA)
● 18. Condition of inspection covers	(Pass) Present/Acceptable
● 19. Condition of seals & bearings	(Pass) Acceptable
● 20. Gearbox Oil Level	(NA)
● 21. Gearbox Oil Level [COPY]	(NA)
22. Type and Grade of Specified Lubricant	
● 23. Correct type and grade of specified lubricant	(NA)
● 24. Appearance of lubricant	(NA)
● 25. Free rotation of shafts	(Yes) Yes
● 26. Condition of Input shaft	(Pass) Acceptable
● 27. Gear tooth condition	(Pass) Acceptable
● 28. Degree of Gear Wear	(Mild) Mild
● 29. Gear tooth Contact	(Pass) Acceptable
Gearbox Summary	
30. Summary of Issues and Overall Condition of the Gearbox	
	<i>Some mild gear wear was found.</i>
31. Technician Signature	Kevin Maxwell
	



Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

Gearbox Inspection

Nucor Jackson (003555)

3630 Fourth St
Flowood, MS 39232

FolderID: 153656
FormID: 21627259



Gearbox Inspection

Completed by: Kevin Maxwell on 09/24/2024

Location: Roll Mill

Serial Number: 10 VERTICAL

Job Number: 153656

Description: 10 Vertical Stand

Customer Name:: Nucor Steel

Location : Flowood, MS

Contact:: Cliff Johnson

Manufacturer:: NA

Ratio:: NA

Serial#:: NA

Type:: NA

Model#:: NA

Application ID:: 10 Vertical

Coupling Type: : Gear

Priorities Found:

Gearbox Visual Inspection

1. Date Inspection Performed **09/17/2024**
2. Oil Condition

Wear

Physical

Contaminants

acceptable



3. Gears:

Wear

Physical

Contaminants

acceptable

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

Printed on 09/24/2024

Powered by **INSPECTALL**

4.0





4. Seals:		
Wear	Physical	Contaminants
acceptable		
5. Environmental Conditions		
Ambient Temperature (F)	Humidity	Contaminants
6. Physical Issues		
Signs of Excessive Heat?	Signs of Lubricant Leaks?	Contaminants
7. Other conditions		
Gearbox Temperature (F)	Moisture Presence	Contaminants

Gearbox Inspection & Evaluation Checklist

8. Primary drive rotates input shaft in correct direction	(Yes) Yes
9. Condition of Machinery Guards if Present	(Pass) Acceptable
10. Condition of Coupling Guards if Present	(Pass) Acceptable
11. Type of Coupler:	
12. Coupling Alignment	
13. Condition of Housing	(Pass) Acceptable
14. Condition of Mounting Hardware	(Pass) Acceptable
15. Breather Vent Installed:	(Pass) Present/Acceptable
16. Condition of Piping & connections (if forced lube system installed)	(Pass) Acceptable
17. Condition of switches, alarms, heaters, coolers or other devices	(NA)
18. Condition of inspection covers	(Pass) Present/Acceptable
19. Condition of seals & bearings	(Pass) Acceptable
20. Gearbox Oil Level	(NA)
21. Gearbox Oil Level [COPY]	(NA)
22. Type and Grade of Specified Lubricant	
23. Correct type and grade of specified lubricant	(NA)
24. Appearance of lubricant	(NA)
25. Free rotation of shafts	(Yes) Yes
26. Condition of Input shaft	(Pass) Acceptable
27. Gear tooth condition	(Pass) Acceptable
28. Degree of Gear Wear	(None) None/New
29. Gear tooth Contact	(Pass) Acceptable

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

Gearbox Summary

30. Summary of Issues and Overall Condition of the Gearbox

No issues were found during this inspection.

31. Technician Signature

Kevin Maxwell

A handwritten signature in black ink, appearing to read 'K Maxwell', is written over a light gray rectangular background.



Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

Gearbox Inspection

Nucor Jackson (003555)

3630 Fourth St
Flowood, MS 39232

FolderID: 153656
FormID: 21627290



Gearbox Inspection

Completed by: Kevin Maxwell on 09/24/2024

Location: Roll Mill

Serial Number: STAND 8

Job Number: 153656

Description: Roll Stand 8

Customer Name:: Nucor Steel

Location : Flowood, MS

Contact:: Cliff Johnson

Manufacturer:: NA

Ratio:: NA

Serial#:: NA

Type:: NA

Model#:: NA

Application ID:: Stand 8

Coupling Type: : Gear

Priorities Found:

Gearbox Visual Inspection

1. Date Inspection Performed **09/16/2024**

2. Oil Condition

Wear

Physical

Contaminants

acceptable

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.


Printed on 09/24/2024

Powered by **INSPECTALL**

5.0

3. Gears:			
Wear	Physical	Contaminants	
acceptable			
			
			
4. Seals:			
Wear	Physical	Contaminants	
acceptable			
5. Environmental Conditions			
Ambient Temperature (F)	Humidity	Contaminants	
6. Physical Issues			
Signs of Excessive Heat?	Signs of Lubricant Leaks?	Contaminants	
7. Other conditions			
Gearbox Temperature (F)	Moisture Presence	Contaminants	
Gearbox Inspection & Evaluation Checklist			
<input type="radio"/> 8. Primary drive rotates input shaft in correct direction			(Yes) Yes
<input type="radio"/> 9. Condition of Machinery Guards if Present			(Pass) Acceptable
<input type="radio"/> 10. Condition of Coupling Guards if Present			(Pass) Acceptable
11. Type of Coupler:			
12. Coupling Alignment			
<input type="radio"/> 13. Condition of Housing			(Pass) Acceptable

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

● 14. Condition of Mounting Hardware	(Pass) Acceptable
● 15. Breather Vent Installed:	(NA)
● 16. Condition of Piping & connections (if forced lube system installed)	(Pass) Acceptable
● 17. Condition of switches, alarms, heaters, coolers or other devices	(NA)
● 18. Condition of inspection covers	(Pass) Present/Acceptable
● 19. Condition of seals & bearings	(Pass) Acceptable
● 20. Gearbox Oil Level	(NA)
● 21. Gearbox Oil Level [COPY]	(NA)
22. Type and Grade of Specified Lubricant	
● 23. Correct type and grade of specified lubricant	(NA)
● 24. Appearance of lubricant	(NA)
● 25. Free rotation of shafts	(Yes) Yes
● 26. Condition of Input shaft	(Pass) Acceptable
● 27. Gear tooth condition	(Pass) Acceptable
● 28. Degree of Gear Wear	(None) None/New
● 29. Gear tooth Contact	(Pass) Acceptable
Gearbox Summary	
30. Summary of Issues and Overall Condition of the Gearbox	
<i>No issues found during this inspection.</i>	
31. Technician Signature	Kevin Maxwell
	



Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

Gearbox Inspection

Nucor Jackson (003555)

3630 Fourth St
Flowood, MS 39232

FolderID: 153656
FormID: 21627270



Gearbox Inspection

Completed by: Kevin Maxwell on 09/24/2024

Location: Roll Mill

Serial Number: 4 INTERMEDIATE

Job Number: 153656

Description: Roll Stand 4 Intermediate

Customer Name:: Nucor Steel

Location : Flowood, MS

Contact:: Cliff Johnson

Manufacturer:: NA

Ratio:: NA

Serial#:: NA

Type:: NA

Model#:: NA

Application ID:: 4 Intermediate

Coupling Type: : Gear

Priorities Found:

Gearbox Visual Inspection

- | | |
|------------------------------|------------|
| 1. Date Inspection Performed | 09/17/2024 |
| 2. Oil Condition | |

Wear

Physical

Contaminants

acceptable

Some contaminants





Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.


Printed on 09/24/2024

Powered by [INSPECTALL](#)

6.0

3. Gears:		
Wear acceptable	Physical	Contaminants
		
4. Seals:		
Wear acceptable	Physical	Contaminants
5. Environmental Conditions		
Ambient Temperature (F)	Humidity	Contaminants
6. Physical Issues		
Signs of Excessive Heat?	Signs of Lubricant Leaks?	Contaminants
7. Other conditions		
Gearbox Temperature (F)	Moisture Presence	Contaminants
Gearbox Inspection & Evaluation Checklist		
8. Primary drive rotates input shaft in correct direction		(Yes) Yes
9. Condition of Machinery Guards if Present		(NA)
10. Condition of Coupling Guards if Present		(NA)
11. Type of Coupler:		
12. Coupling Alignment		
13. Condition of Housing		(Pass) Acceptable
14. Condition of Mounting Hardware		(Pass) Acceptable
15. Breather Vent Installed:		(Pass) Present/Acceptable
16. Condition of Piping & connections (if forced lube system installed)		(Pass) Acceptable
17. Condition of switches, alarms, heaters, coolers or other devices		(NA)
18. Condition of inspection covers		(Pass) Present/Acceptable
19. Condition of seals & bearings		(Pass) Acceptable
20. Gearbox Oil Level		(NA)
21. Gearbox Oil Level [COPY]		(NA)
22. Type and Grade of Specified Lubricant		
23. Correct type and grade of specified lubricant		(NA)
24. Appearance of lubricant		(Pass) Acceptable
25. Free rotation of shafts		(Yes) Yes
26. Condition of Input shaft		(Pass) Acceptable

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

● 27. Gear tooth condition	(Pass) Acceptable
● 28. Degree of Gear Wear	(Mild) Mild
● 29. Gear tooth Contact	(Pass) Acceptable
Gearbox Summary	
30. Summary of Issues and Overall Condition of the Gearbox	
<i>Gears have mild amount of wear and gear casing has contaminants in bottom of casing.</i>	
31. Technician Signature	Kevin Maxwell
	



Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

Gearbox Inspection

Nucor Jackson (003555)

3630 Fourth St
Flowood, MS 39232

FolderID: 153656
FormID: 21627267



Gearbox Inspection

Completed by: Kevin Maxwell on 09/24/2024

Location: Roll Mill

Serial Number: 2A VERTICAL

Job Number: 153656

Description: 2A Vertical Stand

Customer Name:: Nucor Steel

Contact:: Cliff Johnson

Manufacturer:: NA

Ratio:: NA

Serial#:: NA

Type:: NA

Model#:: NA

Application ID:: 2A Vertical

Coupling Type: : Gear

Priorities Found: ● 1 - High

Gearbox Visual Inspection

1. Date Inspection Performed

09/17/2024

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

Printed on 09/24/2024

Powered by INSPECTALL

7.0

2. Oil Condition

Wear
contaminants

Physical

Contaminants

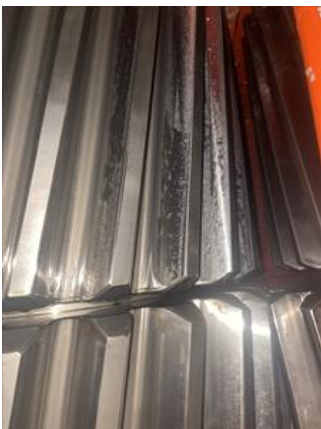


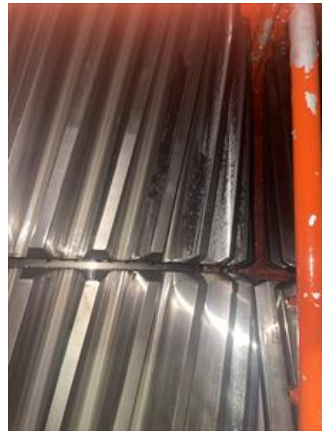
3. Gears:

Wear
some wear

Physical

Contaminants










4. Seals:		
Wear	Physical	Contaminants
acceptable		
5. Environmental Conditions		
Ambient Temperature (F)	Humidity	Contaminants
6. Physical Issues		
Signs of Excessive Heat?	Signs of Lubricant Leaks?	Contaminants
7. Other conditions		

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

Gearbox Temperature (F)	Moisture Presence	Contaminants
Gearbox Inspection & Evaluation Checklist		
8. Primary drive rotates input shaft in correct direction		(Yes) Yes
9. Condition of Machinery Guards if Present		(Pass) Acceptable
10. Condition of Coupling Guards if Present		(Pass) Acceptable
11. Type of Coupler:		
12. Coupling Alignment		
13. Condition of Housing		(Pass) Acceptable
14. Condition of Mounting Hardware		(Pass) Acceptable
15. Breather Vent Installed:		(Pass) Present/Acceptable
16. Condition of Piping & connections (if forced lube system installed)		(Pass) Acceptable
17. Condition of switches, alarms, heaters, coolers or other devices		(NA)
18. Condition of inspection covers		(Pass) Present/Acceptable
19. Condition of seals & bearings		(Pass) Acceptable
20. Gearbox Oil Level		(NA)
21. Gearbox Oil Level [COPY]		(NA)
22. Type and Grade of Specified Lubricant		
23. Correct type and grade of specified lubricant		(NA)
24. Appearance of lubricant		(Fail) Unacceptable
<div>  <i>Brass appears to be in bottom of gear case.</i> </div>		
25. Free rotation of shafts		(Yes) Yes
26. Condition of Input shaft		(Pass) Acceptable
27. Gear tooth condition		(Pass) Acceptable
<div>  <i>Top input gear shows some minor wear</i> </div>		
28. Degree of Gear Wear		(Mild) Mild
29. Gear tooth Contact		(Pass) Acceptable
Gearbox Summary		
30. Summary of Issues and Overall Condition of the Gearbox <i>There appears to be some brass in the bottom of the gear casing. This is likely the input side bearing with the brass cage. Top gear has mild wear.</i>		
31. Technician Signature 		Kevin Maxwell



Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

Gearbox Inspection

Nucor Jackson (003555)

3630 Fourth St
Flowood, MS 39232

FolderID: 153656
FormID: 21627255



Gearbox Inspection

Completed by: Kevin Maxwell on 09/24/2024

Location: Roll Mill

Serial Number: 1 INTERMEDIATE

Job Number: 153656

Description: Roll Stand 1 Intermediate

Customer Name:: Nucor Steel

Location : Flowood, MS

Contact:: Cliff Johnson

Manufacturer:: NA

Ratio:: NA

Serial#:: NA

Type:: NA

Model#:: NA

Application ID:: 1 Intermediate

Coupling Type: : Gear

Priorities Found:

Gearbox Visual Inspection

1. Date Inspection Performed **09/16/2024**

2. Oil Condition

Wear

Physical

Contaminants


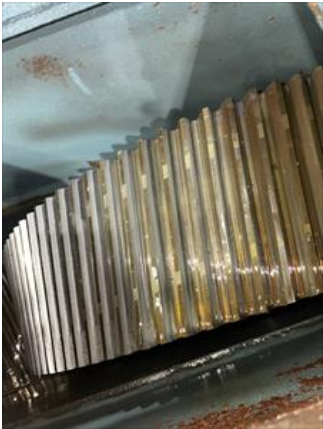
acceptable

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.


Printed on 09/24/2024

Powered by **INSPECTALL**

8.0

3. Gears:		
Wear	Physical	Contaminants
acceptable		
Mild amount of gear wear		
<div></div>		
4. Seals:		
Wear	Physical	Contaminants
acceptable		
5. Environmental Conditions		
Ambient Temperature (F)	Humidity	Contaminants
6. Physical Issues		
Signs of Excessive Heat?	Signs of Lubricant Leaks?	Contaminants
7. Other conditions		
Gearbox Temperature (F)	Moisture Presence	Contaminants
Gearbox Inspection & Evaluation Checklist		
8. Primary drive rotates input shaft in correct direction		(Yes) Yes
9. Condition of Machinery Guards if Present		(Pass) Acceptable
10. Condition of Coupling Guards if Present		(Pass) Acceptable
11. Type of Coupler:		
12. Coupling Alignment		

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

● 13. Condition of Housing	(Pass) Acceptable
● 14. Condition of Mounting Hardware	(Pass) Acceptable
● 15. Breather Vent Installed:	(Pass) Present/Acceptable
● 16. Condition of Piping & connections (if forced lube system installed)	(Pass) Acceptable
● 17. Condition of switches, alarms, heaters, coolers or other devices	(NA)
● 18. Condition of inspection covers	(Pass) Present/Acceptable
● 19. Condition of seals & bearings	(Pass) Acceptable
● 20. Gearbox Oil Level	(NA)
● 21. Gearbox Oil Level [COPY]	(NA)
22. Type and Grade of Specified Lubricant	
● 23. Correct type and grade of specified lubricant	(NA)
● 24. Appearance of lubricant	(NA)
● 25. Free rotation of shafts	(Yes) Yes
● 26. Condition of Input shaft	(Pass) Acceptable
● 27. Gear tooth condition	(Pass) Acceptable
● 28. Degree of Gear Wear	(Mild) Mild
● 29. Gear tooth Contact	(Pass) Acceptable
Gearbox Summary	
30. Summary of Issues and Overall Condition of the Gearbox	
	<i>Mild gear wear was found during inspection.</i>
31. Technician Signature	Kevin Maxwell
	



Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

Gearbox Inspection

Nucor Jackson (003555)

3630 Fourth St
Flowood, MS 39232

FolderID: 153656
FormID: 21627260



Gearbox Inspection

Completed by: Kevin Maxwell on 09/24/2024

Location: Roll Mill

Serial Number: 12 VERTICAL STAND

Job Number: 153656

Description: 12 Vertical Stand

Customer Name:: Nucor Steel

Location : Flowood, MS

Contact:: Cliff Johnson

Manufacturer:: NA

Ratio:: NA

Serial#:: NA

Type:: NA

Model#:: NA

Application ID:: 12 Vertical

Coupling Type: : Gear

Priorities Found:

Gearbox Visual Inspection

1. Date Inspection Performed **09/17/2024**
2. Oil Condition

Wear

Physical

Contaminants

acceptable



Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

Printed on 09/24/2024

Powered by **INSPECTALL**

9.0

3. Gears:

Wear
acceptable

Physical

Contaminants



4. Seals:

Wear
acceptable

Physical

Contaminants

5. Environmental Conditions

Ambient Temperature (F)

Humidity

Contaminants

6. Physical Issues

Signs of Excessive Heat?

Signs of Lubricant Leaks?

Contaminants

7. Other conditions

Gearbox Temperature (F)


Moisture Presence

Contaminants

Gearbox Inspection & Evaluation Checklist

8.	Primary drive rotates input shaft in correct direction	(Yes) Yes
9.	Condition of Machinery Guards if Present	(Pass) Acceptable
10.	Condition of Coupling Guards if Present	(Pass) Acceptable
11.	Type of Coupler:	
12.	Coupling Alignment	
13.	Condition of Housing	(Pass) Acceptable

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

● 14. Condition of Mounting Hardware	(Pass) Acceptable
● 15. Breather Vent Installed:	(Pass) Present/Acceptable
● 16. Condition of Piping & connections (if forced lube system installed)	(Pass) Acceptable
● 17. Condition of switches, alarms, heaters, coolers or other devices	(NA)
● 18. Condition of inspection covers	(Pass) Present/Acceptable
● 19. Condition of seals & bearings	(Pass) Acceptable
● 20. Gearbox Oil Level	(NA)
● 21. Gearbox Oil Level [COPY]	(NA)
22. Type and Grade of Specified Lubricant	
● 23. Correct type and grade of specified lubricant	(NA)
● 24. Appearance of lubricant	(NA)
● 25. Free rotation of shafts	(Yes) Yes
● 26. Condition of Input shaft	(Pass) Acceptable
● 27. Gear tooth condition	(Pass) Acceptable
● 28. Degree of Gear Wear	(None) None/New
● 29. Gear tooth Contact	(Pass) Acceptable
Gearbox Summary	
30. Summary of Issues and Overall Condition of the Gearbox	
	<i>No issues to note</i>
31. Technician Signature	Kevin Maxwell
	



Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

Gearbox Inspection

Nucor Jackson (003555)

3630 Fourth St
Flowood, MS 39232

FolderID: 153656
FormID: 21627287



Gearbox Inspection

Completed by: Kevin Maxwell on 09/24/2024

Location: Roll Mill

Serial Number: STAND 5

Job Number: 153656

Description: Roll Stand 5

Customer Name:: Nucor Steel

Location : Flowood, MS

Contact:: Cliff Johnson

Manufacturer:: NA

Ratio:: NA

Serial#:: NA

Type:: NA

Model#:: NA

Application ID:: Stand 5

Coupling Type: : Gear

Priorities Found:

Gearbox Visual Inspection

- | | |
|------------------------------|------------|
| 1. Date Inspection Performed | 09/16/2024 |
| 2. Oil Condition | |

Wear

Physical

Contaminants

acceptable



Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

Printed on 09/24/2024

Powered by [INSPECTALL](#)

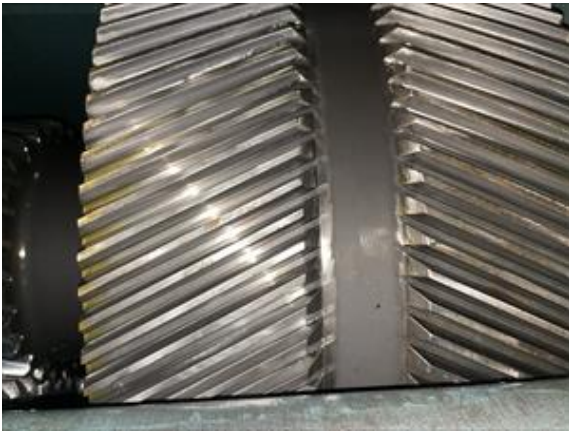
10.0

3. Gears:

Wear
acceptable

Physical

Contaminants



4. Seals:

Wear
acceptable

Physical

Contaminants

5. Environmental Conditions

Ambient Temperature (F)

Humidity

Contaminants

6. Physical Issues

Signs of Excessive Heat?

Signs of Lubricant Leaks?

Contaminants

7. Other conditions

Gearbox Temperature (F)


Moisture Presence

Contaminants

Gearbox Inspection & Evaluation Checklist

- | | |
|---|-------------------|
| ● 8. Primary drive rotates input shaft in correct direction | (Yes) Yes |
| ● 9. Condition of Machinery Guards if Present | (Pass) Acceptable |
| ● 10. Condition of Coupling Guards if Present | (Pass) Acceptable |
| 11. Type of Coupler: | |
| 12. Coupling Alignment | |
| ● 13. Condition of Housing | (Pass) Acceptable |

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

● 14. Condition of Mounting Hardware	(Pass) Acceptable
● 15. Breather Vent Installed:	(NA)
● 16. Condition of Piping & connections (if forced lube system installed)	(Pass) Acceptable
● 17. Condition of switches, alarms, heaters, coolers or other devices	(NA)
● 18. Condition of inspection covers	(Pass) Present/Acceptable
● 19. Condition of seals & bearings	(Pass) Acceptable
● 20. Gearbox Oil Level	(NA)
● 21. Gearbox Oil Level [COPY]	(NA)
22. Type and Grade of Specified Lubricant	
● 23. Correct type and grade of specified lubricant	(NA)
● 24. Appearance of lubricant	(NA)
● 25. Free rotation of shafts	(Yes) Yes
● 26. Condition of Input shaft	(Pass) Acceptable
● 27. Gear tooth condition	(Pass) Acceptable
● 28. Degree of Gear Wear	(Mild) Mild
● 29. Gear tooth Contact	(Pass) Acceptable
Gearbox Summary	
30. Summary of Issues and Overall Condition of the Gearbox	
	<i>Some mild gear wear is present</i>
31. Technician Signature	Kevin Maxwell
	



Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

Gearbox Inspection

Nucor Jackson (003555)

3630 Fourth St
Flowood, MS 39232

FolderID: 153656
FormID: 21627264



Gearbox Inspection

Completed by: Kevin Maxwell on 09/24/2024

Location: Roll Mill

Serial Number: 2 MAIN STAND

Job Number: 153656

Description: Roll Stand 2 Main Gearbox

Customer Name:: Nucor Steel

Location : Flowood, MS

Contact:: Cliff Johnson

Manufacturer:: N/A

Ratio:: N/A

Serial#:: N/A

Type:: N/A

Model#:: N/A

Application ID:: 2 Main

Coupling Type: : Gear

Priorities Found:

Gearbox Visual Inspection

- | | |
|------------------------------|------------|
| 1. Date Inspection Performed | 09/16/2024 |
| 2. Oil Condition | |

Wear

Physical

Contaminants

acceptable



Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.


Printed on 09/24/2024

Powered by [INSPECTALL](#)

11.0

3. Gears:		
Wear acceptable	Physical	Contaminants
		
4. Seals:		
Wear acceptable	Physical	Contaminants
5. Environmental Conditions		
Ambient Temperature (F)	Humidity	Contaminants
6. Physical Issues		
Signs of Excessive Heat?	Signs of Lubricant Leaks?	Contaminants
7. Other conditions		
Gearbox Temperature (F)	Moisture Presence	Contaminants
Gearbox Inspection & Evaluation Checklist		
● 8. Primary drive rotates input shaft in correct direction		(Yes) Yes
● 9. Condition of Machinery Guards if Present		(NA)
● 10. Condition of Coupling Guards if Present		(NA)
11. Type of Coupler:		
12. Coupling Alignment		
● 13. Condition of Housing		(Pass) Acceptable
● 14. Condition of Mounting Hardware		(Pass) Acceptable
● 15. Breather Vent Installed:		(NA)
● 16. Condition of Piping & connections (if forced lube system installed)		(Pass) Acceptable
● 17. Condition of switches, alarms, heaters, coolers or other devices		(NA)
● 18. Condition of inspection covers		(Pass) Present/Acceptable
● 19. Condition of seals & bearings		(Pass) Acceptable
● 20. Gearbox Oil Level		(NA)
● 21. Gearbox Oil Level [COPY]		(NA)
22. Type and Grade of Specified Lubricant		
● 23. Correct type and grade of specified lubricant		(NA)
● 24. Appearance of lubricant		(NA)
● 25. Free rotation of shafts		(Yes) Yes
● 26. Condition of Input shaft		(Pass) Acceptable

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

● 27. Gear tooth condition	(Pass) Acceptable
● 28. Degree of Gear Wear	(Mild) Mild
● 29. Gear tooth Contact	(Pass) Acceptable
Gearbox Summary	
30. Summary of Issues and Overall Condition of the Gearbox	
<i>Some mild gear wear was found during the inspection.</i>	
31. Technician Signature	Kevin Maxwell
	



Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

Gearbox Inspection

Nucor Jackson (003555)

3630 Fourth St
Flowood, MS 39232

FolderID: 153656
FormID: 21627291



Gearbox Inspection

Completed by: Kevin Maxwell on 09/24/2024

Location: Roll Mill

Serial Number: STAND 9

Job Number: 153656

Description: Roll Stand 9

Customer Name:: Nucor Steel

Location : Flowood, MS

Contact:: Cliff Johnson

Manufacturer:: NA

Ratio:: NA

Serial#:: NA

Type:: NA

Model#:: NA

Application ID:: Stand 9

Coupling Type: : Gear

Priorities Found:

Gearbox Visual Inspection

- | | |
|------------------------------|------------|
| 1. Date Inspection Performed | 09/16/2024 |
| 2. Oil Condition | |

Wear

Physical

Contaminants

acceptable

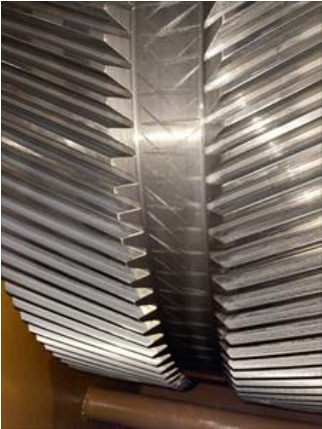





Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.


Printed on 09/24/2024

Powered by [INSPECTALL](#)

12.0

3. Gears:		
Wear acceptable	Physical	Contaminants
		
		
4. Seals:		
Wear acceptable	Physical	Contaminants
5. Environmental Conditions		
Ambient Temperature (F)	Humidity	Contaminants
6. Physical Issues		
Signs of Excessive Heat?	Signs of Lubricant Leaks?	Contaminants
7. Other conditions		
Gearbox Temperature (F)	Moisture Presence	Contaminants
Gearbox Inspection & Evaluation Checklist		
8. Primary drive rotates input shaft in correct direction		(Yes) Yes
9. Condition of Machinery Guards if Present		(Pass) Acceptable
10. Condition of Coupling Guards if Present		(Pass) Acceptable
11. Type of Coupler:		
12. Coupling Alignment		
13. Condition of Housing		(Pass) Acceptable

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

● 14. Condition of Mounting Hardware	(Pass) Acceptable
● 15. Breather Vent Installed:	(NA)
● 16. Condition of Piping & connections (if forced lube system installed)	(Pass) Acceptable
● 17. Condition of switches, alarms, heaters, coolers or other devices	(NA)
● 18. Condition of inspection covers	(Pass) Present/Acceptable
● 19. Condition of seals & bearings	(Pass) Acceptable
● 20. Gearbox Oil Level	(NA)
● 21. Gearbox Oil Level [COPY]	(NA)
22. Type and Grade of Specified Lubricant	
● 23. Correct type and grade of specified lubricant	(NA)
● 24. Appearance of lubricant	(Pass) Acceptable
● 25. Free rotation of shafts	(Yes) Yes
● 26. Condition of Input shaft	(Pass) Acceptable
● 27. Gear tooth condition	(Pass) Acceptable
● 28. Degree of Gear Wear	(None) None/New
● 29. Gear tooth Contact	(Pass) Acceptable
Gearbox Summary	
30. Summary of Issues and Overall Condition of the Gearbox	
	<i>No issues were found</i>
31. Technician Signature	Kevin Maxwell
	



Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

Gearbox Inspection

Nucor Jackson (003555)

3630 Fourth St
Flowood, MS 39232

FolderID: 153656
FormID: 21627288



Gearbox Inspection

Completed by: Kevin Maxwell on 09/24/2024

Location: Roll Mill

Serial Number: STAND 6

Job Number: 153656

Description: Roll Stand 6

Customer Name:: Nucor Steel

Location : Flowood, MS

Contact:: Cliff Johnson

Manufacturer:: NA

Ratio:: NA

Serial#:: NA

Type:: NA

Model#:: NA

Application ID:: Stand 6

Coupling Type: : Gear

Priorities Found:

Gearbox Visual Inspection

- | | |
|------------------------------|------------|
| 1. Date Inspection Performed | 09/16/2024 |
| 2. Oil Condition | |

Wear

Physical

Contaminants

acceptable



Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

Printed on 09/24/2024

Powered by [INSPECTALL](#)

13.0

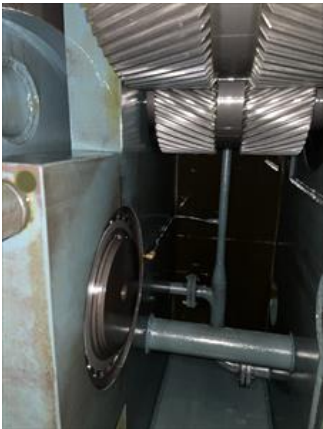
3. Gears:

Wear
acceptable

Physical

Contaminants

Some pitting on gears



4. Seals:

Wear
acceptable

Physical


Contaminants

5. Environmental Conditions

Ambient Temperature (F)

Humidity

Contaminants

6. Physical Issues		
Signs of Excessive Heat?	Signs of Lubricant Leaks?	Contaminants
7. Other conditions		
Gearbox Temperature (F)	Moisture Presence	Contaminants
Gearbox Inspection & Evaluation Checklist		
8. Primary drive rotates input shaft in correct direction		(Yes) Yes
9. Condition of Machinery Guards if Present		(Pass) Acceptable
10. Condition of Coupling Guards if Present		(Pass) Acceptable
11. Type of Coupler:		
12. Coupling Alignment		
13. Condition of Housing		(Pass) Acceptable
14. Condition of Mounting Hardware		(Pass) Acceptable
15. Breather Vent Installed:		(NA)
16. Condition of Piping & connections (if forced lube system installed)		(Pass) Acceptable
17. Condition of switches, alarms, heaters, coolers or other devices		(NA)
18. Condition of inspection covers		(Pass) Present/Acceptable
19. Condition of seals & bearings		(Pass) Acceptable
20. Gearbox Oil Level		(NA)
21. Gearbox Oil Level [COPY]		(NA)
22. Type and Grade of Specified Lubricant		
23. Correct type and grade of specified lubricant		(NA)
24. Appearance of lubricant		(NA)
25. Free rotation of shafts		(Yes) Yes
26. Condition of Input shaft		(Pass) Acceptable
27. Gear tooth condition		(Pass) Acceptable
28. Degree of Gear Wear		(Mild) Mild
<div> <div></div> <div>Some pitting on gears</div> </div>		
29. Gear tooth Contact		(Pass) Acceptable
Gearbox Summary		
30. Summary of Issues and Overall Condition of the Gearbox		
Some pitting was found on gears during inspection. Appears to be a minor issue.		
31. Technician Signature		Kevin Maxwell
		



Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

Gearbox Inspection

Nucor Jackson (003555)

3630 Fourth St
Flowood, MS 39232

FolderID: 153656
FormID: 21627275



Gearbox Inspection

Completed by: Kevin Maxwell on 09/24/2024

Location: Roll Mill

Serial Number: FLYING SHEAR
INTERMEDIATE

Job Number: 153656

Description: Flying Shear Intermediate

Customer Name:: Nucor Steel

Location : Flowood, MS

Contact:: Cliff Johnson

Manufacturer:: NA

Ratio:: NA

Serial#:: NA

Type:: NA

Model#:: NA

Application ID:: Flying Shear Intermediate

Coupling Type: : Gear

Priorities Found:

Gearbox Visual Inspection

- | | |
|------------------------------|------------|
| 1. Date Inspection Performed | 09/17/2024 |
| 2. Oil Condition | |

Wear

Physical

Contaminants

acceptable



Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

Printed on 09/24/2024

Powered by [INSPECTALL](#)

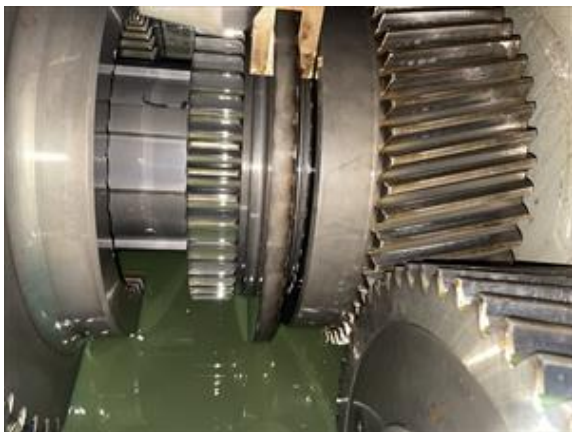
14.0

3. Gears:

Wear
acceptable

Physical

Contaminants



4. Seals:

Wear
acceptable

Physical


Contaminants

5. Environmental Conditions

Ambient Temperature (F)

Humidity

Contaminants

6. Physical Issues		
Signs of Excessive Heat?	Signs of Lubricant Leaks?	Contaminants
7. Other conditions		
Gearbox Temperature (F)	Moisture Presence	Contaminants
Gearbox Inspection & Evaluation Checklist		
8. Primary drive rotates input shaft in correct direction		(Yes) Yes
9. Condition of Machinery Guards if Present		(Pass) Acceptable
10. Condition of Coupling Guards if Present		(Pass) Acceptable
11. Type of Coupler:		
12. Coupling Alignment		
13. Condition of Housing		(Pass) Acceptable
14. Condition of Mounting Hardware		(Pass) Acceptable
15. Breather Vent Installed:		(Pass) Present/Acceptable
16. Condition of Piping & connections (if forced lube system installed)		(Pass) Acceptable
17. Condition of switches, alarms, heaters, coolers or other devices		(NA)
18. Condition of inspection covers		(Pass) Present/Acceptable
19. Condition of seals & bearings		(Pass) Acceptable
20. Gearbox Oil Level		(NA)
21. Gearbox Oil Level [COPY]		(NA)
22. Type and Grade of Specified Lubricant		
23. Correct type and grade of specified lubricant		(NA)
24. Appearance of lubricant		(Pass) Acceptable
25. Free rotation of shafts		(Yes) Yes
26. Condition of Input shaft		(Pass) Acceptable
27. Gear tooth condition		(Pass) Acceptable
28. Degree of Gear Wear		(None) None/New
29. Gear tooth Contact		(Pass) Acceptable
Gearbox Summary		
30. Summary of Issues and Overall Condition of the Gearbox <i>No issues found during this inspection.</i>		
31. Technician Signature		Kevin Maxwell
		



Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

Gearbox Inspection

Nucor Jackson (003555)

3630 Fourth St
Flowood, MS 39232

FolderID: 153656
FormID: 21627276



Gearbox Inspection

Completed by: Kevin Maxwell on 09/24/2024

Location: Roll Mill

Serial Number: FLYING SHEAR MAIN

Job Number: 153656

Description: Flying Shear Main

Customer Name:: Nucor Steel

Location : Flowood, MS

Contact:: Cliff Johnson

Manufacturer:: NA

Ratio:: NA

Serial#:: NA

Type:: NA

Model#:: NA

Application ID:: Flying Shear Main

Coupling Type: : GeR

Priorities Found:

Gearbox Visual Inspection

- | | |
|------------------------------|------------|
| 1. Date Inspection Performed | 09/17/2024 |
| 2. Oil Condition | |

Wear

Physical

Contaminants

acceptable




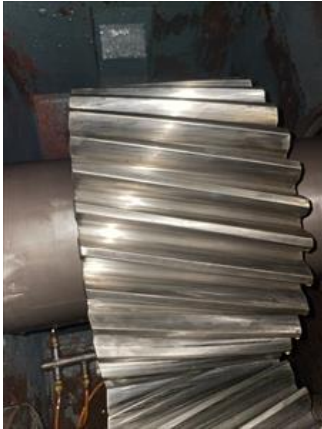


Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.


Printed on 09/24/2024

Powered by [INSPECTALL](#)

15.0

3. Gears:		
Wear acceptable	Physical	Contaminants
		
		
4. Seals:		
Wear acceptable	Physical	Contaminants
5. Environmental Conditions		
Ambient Temperature (F)	Humidity	Contaminants
6. Physical Issues		
Signs of Excessive Heat?	Signs of Lubricant Leaks?	Contaminants
7. Other conditions		
Gearbox Temperature (F)	Moisture Presence	Contaminants
Gearbox Inspection & Evaluation Checklist		
8. Primary drive rotates input shaft in correct direction	(Yes) Yes	
9. Condition of Machinery Guards if Present	(Pass) Acceptable	
10. Condition of Coupling Guards if Present	(Pass) Acceptable	
11. Type of Coupler:		
12. Coupling Alignment		
13. Condition of Housing	(Pass) Acceptable	

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

● 14. Condition of Mounting Hardware	(Pass) Acceptable
● 15. Breather Vent Installed:	(NA)
● 16. Condition of Piping & connections (if forced lube system installed)	(Pass) Acceptable
17. Condition of switches, alarms, heaters, coolers or other devices	
● 18. Condition of inspection covers	(NA)
● 19. Condition of seals & bearings	(Pass) Acceptable
● 20. Gearbox Oil Level	(NA)
● 21. Gearbox Oil Level [COPY]	(NA)
22. Type and Grade of Specified Lubricant	
● 23. Correct type and grade of specified lubricant	(NA)
● 24. Appearance of lubricant	(Pass) Acceptable
● 25. Free rotation of shafts	(Yes) Yes
● 26. Condition of Input shaft	(Pass) Acceptable
● 27. Gear tooth condition	(Pass) Acceptable
● 28. Degree of Gear Wear	(None) None/New
● 29. Gear tooth Contact	(Pass) Acceptable
Gearbox Summary	
30. Summary of Issues and Overall Condition of the Gearbox <i>Gearbox has no apparent issues during inspection.</i>	
31. Technician Signature	Kevin Maxwell
	



Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

Gearbox Inspection

Nucor Jackson (003555)

3630 Fourth St
Flowood, MS 39232

FolderID: 153656
FormID: 21627268



Gearbox Inspection

Completed by: Kevin Maxwell on 09/24/2024

Location: Roll Mill

Serial Number: 3 INTERMEDIATE

Job Number: 153656

Description: Roll Stand 3 Intermediate

Customer Name:: Nucor Steel

Location : Flowood, MS

Contact:: Cliff Johnson

Manufacturer:: N/A

Ratio:: N/A

Serial#:: N/A

Type:: N/A

Model#:: N/A

Application ID:: 3 Intermediate

Coupling Type: : Gear

Priorities Found:

Gearbox Visual Inspection

- | | |
|------------------------------|------------|
| 1. Date Inspection Performed | 09/16/2024 |
| 2. Oil Condition | |

Wear

Physical

Contaminants

acceptable



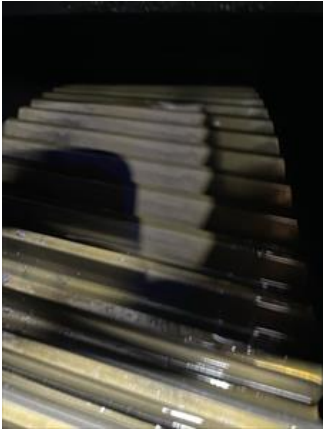


Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.


Printed on 09/24/2024

Powered by [INSPECTALL](#)

16.0

3. Gears:		
Wear acceptable	Physical	Contaminants
		
		
4. Seals:		
Wear acceptable	Physical	Contaminants
5. Environmental Conditions		
Ambient Temperature (F)	Humidity	Contaminants
6. Physical Issues		
Signs of Excessive Heat?	Signs of Lubricant Leaks?	Contaminants
7. Other conditions		
Gearbox Temperature (F)	Moisture Presence	Contaminants
Gearbox Inspection & Evaluation Checklist		
8. Primary drive rotates input shaft in correct direction		(Yes) Yes
9. Condition of Machinery Guards if Present		(NA)
10. Condition of Coupling Guards if Present		(NA)
11. Type of Coupler:		
12. Coupling Alignment		
13. Condition of Housing		(Pass) Acceptable

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

● 14. Condition of Mounting Hardware	(Pass) Acceptable
● 15. Breather Vent Installed:	(Pass) Present/Acceptable
● 16. Condition of Piping & connections (if forced lube system installed)	(Pass) Acceptable
● 17. Condition of switches, alarms, heaters, coolers or other devices	(NA)
● 18. Condition of inspection covers	(Pass) Present/Acceptable
● 19. Condition of seals & bearings	(Pass) Acceptable
● 20. Gearbox Oil Level	(NA)
● 21. Gearbox Oil Level [COPY]	(NA)
22. Type and Grade of Specified Lubricant	
● 23. Correct type and grade of specified lubricant	(NA)
● 24. Appearance of lubricant	(NA)
● 25. Free rotation of shafts	(Yes) Yes
● 26. Condition of Input shaft	(Pass) Acceptable
● 27. Gear tooth condition	(Pass) Acceptable
● 28. Degree of Gear Wear	(Mild) Mild
● 29. Gear tooth Contact	(Pass) Acceptable
Gearbox Summary	
30. Summary of Issues and Overall Condition of the Gearbox	
	<i>Mild amount gear wear present</i>
31. Technician Signature	Kevin Maxwell
	



Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

Gearbox Inspection

Nucor Jackson (003555)

3630 Fourth St
Flowood, MS 39232

FolderID: 153656
FormID: 21627279



Gearbox Inspection

Completed by: Kevin Maxwell on 09/24/2024

Location: Roll Mill

Serial Number: STAND 11

Job Number: 153656

Description: Roll Stand 11

Customer Name:: Nucor Steel

Location : Flowood, MS

Contact:: Cliff Johnson

Manufacturer:: NA

Ratio:: NA

Serial#:: NA

Type:: NA

Model#:: NA

Application ID:: Stand 11

Coupling Type: : Gear

Priorities Found:

Gearbox Visual Inspection

- | | |
|------------------------------|------------|
| 1. Date Inspection Performed | 09/16/2024 |
| 2. Oil Condition | |

Wear

Physical

Contaminants

acceptable







Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.


Printed on 09/24/2024

Powered by [INSPECTALL](#)

17.0

3. Gears:		
Wear acceptable	Physical	Contaminants
		
		
4. Seals:		
Wear acceptable	Physical	Contaminants
5. Environmental Conditions		
Ambient Temperature (F)	Humidity	Contaminants
6. Physical Issues		
Signs of Excessive Heat?	Signs of Lubricant Leaks?	Contaminants
7. Other conditions		
Gearbox Temperature (F)	Moisture Presence	Contaminants
Gearbox Inspection & Evaluation Checklist		
<input type="radio"/> 8. Primary drive rotates input shaft in correct direction	(Yes) Yes	
<input type="radio"/> 9. Condition of Machinery Guards if Present	(Pass) Acceptable	
<input type="radio"/> 10. Condition of Coupling Guards if Present	(Pass) Acceptable	
11. Type of Coupler:		
12. Coupling Alignment		
<input type="radio"/> 13. Condition of Housing	(Pass) Acceptable	

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

● 14. Condition of Mounting Hardware	(Pass) Acceptable
● 15. Breather Vent Installed:	(Pass) Present/Acceptable
● 16. Condition of Piping & connections (if forced lube system installed)	(Pass) Acceptable
● 17. Condition of switches, alarms, heaters, coolers or other devices	(NA)
● 18. Condition of inspection covers	(Pass) Present/Acceptable
● 19. Condition of seals & bearings	(Pass) Acceptable
● 20. Gearbox Oil Level	(NA)
● 21. Gearbox Oil Level [COPY]	(NA)
22. Type and Grade of Specified Lubricant	
● 23. Correct type and grade of specified lubricant	(NA)
● 24. Appearance of lubricant	(Pass) Acceptable
● 25. Free rotation of shafts	(Yes) Yes
● 26. Condition of Input shaft	(Pass) Acceptable
● 27. Gear tooth condition	(Pass) Acceptable
● 28. Degree of Gear Wear	(None) None/New
● 29. Gear tooth Contact	(Pass) Acceptable
Gearbox Summary	
30. Summary of Issues and Overall Condition of the Gearbox	
<i>No issues to note</i>	
31. Technician Signature	Kevin Maxwell
	



Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

Gearbox Inspection

Nucor Jackson (003555)

3630 Fourth St
Flowood, MS 39232

FolderID: 153656
FormID: 21627283



Gearbox Inspection

Completed by: Kevin Maxwell on 09/24/2024

Location: Roll Mill

Serial Number: STAND 14 90 DEGREE

Job Number: 153656

Description: Roll Stand 14 90 Degree

Customer Name:: Nucor Steel

Location : Flowood, MS

Contact:: Cliff Johnson

Manufacturer:: NA

Ratio:: NA

Serial#:: NA

Type:: NA

Model#:: NA

Application ID:: Stand 14 90 Degree

Coupling Type: : Gear

Priorities Found:

Gearbox Visual Inspection

- | | |
|------------------------------|------------|
| 1. Date Inspection Performed | 09/17/2024 |
| 2. Oil Condition | |

Wear

Physical

Contaminants

acceptable



Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.


Printed on 09/24/2024

Powered by [INSPECTALL](#)

18.0

3. Gears:		
Wear acceptable	Physical	Contaminants
		
		
4. Seals:		
Wear acceptable	Physical	Contaminants
5. Environmental Conditions		
Ambient Temperature (F)	Humidity	Contaminants
6. Physical Issues		
Signs of Excessive Heat?	Signs of Lubricant Leaks?	Contaminants
7. Other conditions		
Gearbox Temperature (F)	Moisture Presence	Contaminants
Gearbox Inspection & Evaluation Checklist		
<input type="radio"/> 8. Primary drive rotates input shaft in correct direction		(Yes) Yes
<input type="radio"/> 9. Condition of Machinery Guards if Present		(Pass) Acceptable
<input type="radio"/> 10. Condition of Coupling Guards if Present		(Pass) Acceptable
11. Type of Coupler:		
12. Coupling Alignment		
<input type="radio"/> 13. Condition of Housing		(Pass) Acceptable

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

● 14. Condition of Mounting Hardware	(Pass) Acceptable
● 15. Breather Vent Installed:	(Pass) Present/Acceptable
● 16. Condition of Piping & connections (if forced lube system installed)	(Pass) Acceptable
● 17. Condition of switches, alarms, heaters, coolers or other devices	(NA)
● 18. Condition of inspection covers	(Pass) Present/Acceptable
● 19. Condition of seals & bearings	(Pass) Acceptable
● 20. Gearbox Oil Level	(NA)
● 21. Gearbox Oil Level [COPY]	(NA)
22. Type and Grade of Specified Lubricant	
● 23. Correct type and grade of specified lubricant	(NA)
● 24. Appearance of lubricant	(NA)
● 25. Free rotation of shafts	(Yes) Yes
● 26. Condition of Input shaft	(Pass) Acceptable
● 27. Gear tooth condition	(Pass) Acceptable
● 28. Degree of Gear Wear	(None) None/New
● 29. Gear tooth Contact	(Pass) Acceptable
Gearbox Summary	
30. Summary of Issues and Overall Condition of the Gearbox	
<i>No issues to note.</i>	
31. Technician Signature	Kevin Maxwell
	



Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

Gearbox Inspection

Nucor Jackson (003555)

3630 Fourth St
Flowood, MS 39232

FolderID: 153656
FormID: 21627281



Gearbox Inspection

Completed by: Kevin Maxwell on 09/24/2024

Location: Roll Mill

Serial Number: STAND 13

Job Number: 153656

Description: Roll Stand 13

Customer Name:: Nucor Steel

Location : Flowood, MS

Contact:: Cliff Johnson

Manufacturer:: NA

Ratio:: NA

Serial#:: NA

Type:: NA

Model#:: NA

Application ID:: Stand 13

Coupling Type: : Gear

Priorities Found: ● 1 - Medium

Gearbox Visual Inspection

- | | |
|------------------------------|------------|
| 1. Date Inspection Performed | 09/17/2024 |
| 2. Oil Condition | |

Wear

Physical

Contaminants

acceptable







Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.


Printed on 09/24/2024

Powered by INSPECTALL

19.0

3. Gears:		
Wear acceptable	Physical	Contaminants
		
		
4. Seals:		
Wear acceptable	Physical	Contaminants
5. Environmental Conditions		
Ambient Temperature (F)	Humidity	Contaminants
6. Physical Issues		
Signs of Excessive Heat?	Signs of Lubricant Leaks?	Contaminants
7. Other conditions		
Gearbox Temperature (F)	Moisture Presence	Contaminants
Gearbox Inspection & Evaluation Checklist		
<input type="radio"/> 8. Primary drive rotates input shaft in correct direction	(Yes) Yes	
<input type="radio"/> 9. Condition of Machinery Guards if Present	(NA)	
<input type="radio"/> 10. Condition of Coupling Guards if Present	(NA)	
11. Type of Coupler:		
12. Coupling Alignment		
<input type="radio"/> 13. Condition of Housing	(Pass) Acceptable	

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

● 14.	Condition of Mounting Hardware	(Pass) Acceptable
● 15.	Breather Vent Installed:	(Pass) Present/Acceptable
● 16.	Condition of Piping & connections (if forced lube system installed)	(Pass) Acceptable
● 17.	Condition of switches, alarms, heaters, coolers or other devices	(NA)
● 18.	Condition of inspection covers	(Missing) Missing/Damaged
■	<i>Bolt holes stripped</i>	
● 19.	Condition of seals & bearings	(Pass) Acceptable
● 20.	Gearbox Oil Level	(NA)
● 21.	Gearbox Oil Level [COPY]	(NA)
	22. Type and Grade of Specified Lubricant	
● 23.	Correct type and grade of specified lubricant	(NA)
● 24.	Appearance of lubricant	(Pass) Acceptable
● 25.	Free rotation of shafts	(Yes) Yes
● 26.	Condition of Input shaft	(Pass) Acceptable
● 27.	Gear tooth condition	(Pass) Acceptable
● 28.	Degree of Gear Wear	(None) None/New
● 29.	Gear tooth Contact	(Pass) Acceptable
Gearbox Summary		
30.	Summary of Issues and Overall Condition of the Gearbox <i>The bolt holes for the inspection cover are stripped. We sealed the cover up good with RTV but holes should be repaired as needed.</i>	
31.	Technician Signature	Kevin Maxwell
		



Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

Gearbox Inspection

Nucor Jackson (003555)

3630 Fourth St
Flowood, MS 39232

FolderID: 153656
FormID: 21627256



Gearbox Inspection

Completed by: Kevin Maxwell on 09/24/2024

Location: Roll Mill

Serial Number: ROLL STAND 1 MAIN

Job Number: 153656

Description: Roll Stand 1 Main

Customer Name:: Nucor Steel

Location : Flowood, MS

Contact:: Cliff Johnson

Manufacturer:: N/A

Ratio:: N/A

Serial#:: N/A

Type:: N/A

Model#:: N/A

Application ID:: 1 Main

Coupling Type: : Gear

Priorities Found:

Gearbox Visual Inspection

1. Date Inspection Performed **09/16/2024**

2. Oil Condition

Wear

Physical

Contaminants



acceptable

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.


Printed on 09/24/2024

Powered by **INSPECTALL**

20.0

3. Gears:		
Wear acceptable	Physical	Contaminants
		
		
4. Seals:		
Wear acceptable	Physical	Contaminants
5. Environmental Conditions		
Ambient Temperature (F)	Humidity	Contaminants
6. Physical Issues		
Signs of Excessive Heat?	Signs of Lubricant Leaks?	Contaminants
7. Other conditions		
Gearbox Temperature (F)	Moisture Presence	Contaminants
Gearbox Inspection & Evaluation Checklist		
8. Primary drive rotates input shaft in correct direction	(Yes) Yes	
9. Condition of Machinery Guards if Present	(Pass) Acceptable	
10. Condition of Coupling Guards if Present	(NA)	
11. Type of Coupler:		
12. Coupling Alignment		
13. Condition of Housing	(Pass) Acceptable	

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

● 14. Condition of Mounting Hardware	(Pass) Acceptable
● 15. Breather Vent Installed:	(NA)
● 16. Condition of Piping & connections (if forced lube system installed)	(Pass) Acceptable
● 17. Condition of switches, alarms, heaters, coolers or other devices	(Pass) Present/Acceptable
● 18. Condition of inspection covers	(Pass) Present/Acceptable
● 19. Condition of seals & bearings	(Pass) Acceptable
● 20. Gearbox Oil Level	(NA)
● 21. Gearbox Oil Level [COPY]	(NA)
22. Type and Grade of Specified Lubricant	
● 23. Correct type and grade of specified lubricant	(NA)
● 24. Appearance of lubricant	(NA)
● 25. Free rotation of shafts	(Yes) Yes
● 26. Condition of Input shaft	(Pass) Acceptable
● 27. Gear tooth condition	(Pass) Acceptable
● 28. Degree of Gear Wear	(None) None/New
● 29. Gear tooth Contact	(Pass) Acceptable
Gearbox Summary	
30. Summary of Issues and Overall Condition of the Gearbox	
	<i>No issues found during this inspection.</i>
31. Technician Signature	Kevin Maxwell
	



Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

Gearbox Inspection

Nucor Jackson (003555)

3630 Fourth St
Flowood, MS 39232

FolderID: 153656
FormID: 21627265



Gearbox Inspection

Completed by: Kevin Maxwell on 09/24/2024

Location: Roll Mill

Serial Number: 2 STAND INTERMEDIATE

Job Number: 153656

Description: Roll Stand 2 Intermediate

Customer Name:: Nucor Steel

Location : Flowood, MS

Contact:: Cliff Johnson

Manufacturer:: N/A

Ratio:: N/A

Serial#:: N/A

Type:: N/A

Model#:: N/A

Application ID:: 2 Intermediate

Coupling Type: : Gear

Priorities Found:

Gearbox Visual Inspection

1. Date Inspection Performed **09/16/2024**

2. Oil Condition

Wear Physical Contaminants
acceptable

3. Gears:

Wear Physical Contaminants
acceptable

 Mild wear is present



4. Seals:

Wear Physical Contaminants
acceptable

5. Environmental Conditions


Ambient Temperature (F) Humidity Contaminants

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

Printed on 09/24/2024

Powered by **INSPECTALL**

21.0

6. Physical Issues		
Signs of Excessive Heat?	Signs of Lubricant Leaks?	Contaminants
7. Other conditions		
Gearbox Temperature (F)	Moisture Presence	Contaminants
Gearbox Inspection & Evaluation Checklist		
8. Primary drive rotates input shaft in correct direction		(Yes) Yes
9. Condition of Machinery Guards if Present		(NA)
10. Condition of Coupling Guards if Present		(NA)
11. Type of Coupler:		
12. Coupling Alignment		
13. Condition of Housing		(Pass) Acceptable
14. Condition of Mounting Hardware		(Pass) Acceptable
15. Breather Vent Installed:		(Pass) Present/Acceptable
16. Condition of Piping & connections (if forced lube system installed)		(Pass) Acceptable
17. Condition of switches, alarms, heaters, coolers or other devices		(NA)
18. Condition of inspection covers		(Pass) Present/Acceptable
19. Condition of seals & bearings		(Pass) Acceptable
20. Gearbox Oil Level		(NA)
21. Gearbox Oil Level [COPY]		(NA)
22. Type and Grade of Specified Lubricant		
23. Correct type and grade of specified lubricant		(NA)
24. Appearance of lubricant		(NA)
25. Free rotation of shafts		(Yes) Yes
26. Condition of Input shaft		(Pass) Acceptable
27. Gear tooth condition		(Pass) Acceptable
28. Degree of Gear Wear		(Mild) Mild
29. Gear tooth Contact		(Pass) Acceptable
Gearbox Summary		
30. Summary of Issues and Overall Condition of the Gearbox <i>Mild gear wear was found during inspection.</i>		
31. Technician Signature		Kevin Maxwell
		



Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

Gearbox Inspection

Nucor Jackson (003555)

3630 Fourth St
Flowood, MS 39232

FolderID: 153656
FormID: 21627257



Gearbox Inspection

Completed by: Kevin Maxwell on 09/24/2024

Location: Roll Mill

Serial Number: 10 INTERMEDIATE 1

Job Number: 153656

Description: Roll Stand 10 1st Intermediate

Customer Name:: Nucor Steel

Location : Flowood, MS

Contact:: Cliff Johnson

Manufacturer:: NA

Ratio:: NA

Serial#:: NA

Type:: NA

Model#:: NA

Application ID:: 10 Intermediate 1

Coupling Type: : Gear

Priorities Found:

Gearbox Visual Inspection

- | | |
|------------------------------|------------|
| 1. Date Inspection Performed | 09/16/2024 |
| 2. Oil Condition | |

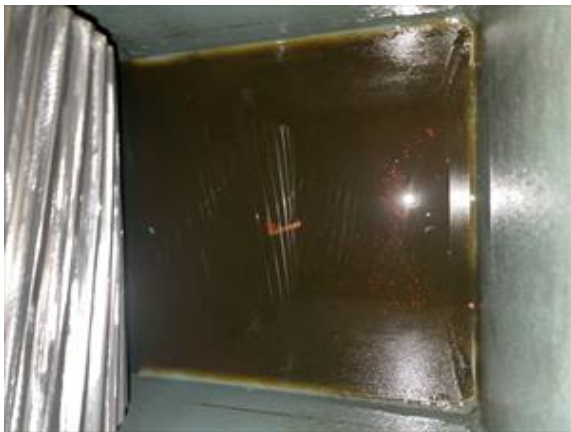
Wear

Physical

Contaminants

acceptable

Some contaminants

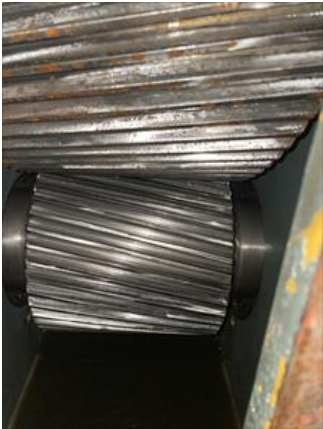


Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.


Printed on 09/24/2024

Powered by [INSPECTALL](#)

22.0

3. Gears:		
Wear	Physical	Contaminants
acceptable		
<div> <div></div> <div>Surface rust</div> </div>		
		
4. Seals:		
Wear	Physical	Contaminants
acceptable		
5. Environmental Conditions		
Ambient Temperature (F)	Humidity	Contaminants
6. Physical Issues		
Signs of Excessive Heat?	Signs of Lubricant Leaks?	Contaminants
7. Other conditions		
Gearbox Temperature (F)	Moisture Presence	Contaminants
Gearbox Inspection & Evaluation Checklist		
8. Primary drive rotates input shaft in correct direction		(Yes) Yes
9. Condition of Machinery Guards if Present		(Pass) Acceptable
10. Condition of Coupling Guards if Present		(Pass) Acceptable
11. Type of Coupler:		
12. Coupling Alignment		
13. Condition of Housing		(Pass) Acceptable
14. Condition of Mounting Hardware		(Pass) Acceptable
15. Breather Vent Installed:		(Pass) Present/Acceptable
16. Condition of Piping & connections (if forced lube system installed)		(Pass) Acceptable
17. Condition of switches, alarms, heaters, coolers or other devices		(NA)
18. Condition of inspection covers		(Pass) Present/Acceptable
19. Condition of seals & bearings		(Pass) Acceptable
20. Gearbox Oil Level		(NA)
21. Gearbox Oil Level [COPY]		(NA)
22. Type and Grade of Specified Lubricant		
23. Correct type and grade of specified lubricant		(NA)
24. Appearance of lubricant		(NA)
25. Free rotation of shafts		(Yes) Yes

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

● 26. Condition of Input shaft	(Pass) Acceptable
● 27. Gear tooth condition	(Pass) Acceptable
● 28. Degree of Gear Wear	(None) None/New
● 29. Gear tooth Contact	(Pass) Acceptable
Gearbox Summary	
30. Summary of Issues and Overall Condition of the Gearbox	
<i>Some surface rust on the gears was found during this inspection.</i>	
31. Technician Signature	Kevin Maxwell
	



Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

Gearbox Inspection

Nucor Jackson (003555)

3630 Fourth St
Flowood, MS 39232

FolderID: 153656
FormID: 21627261



Gearbox Inspection

Completed by: Kevin Maxwell on 09/24/2024

Location: Roll Mill

Serial Number: 14 VERTICAL

Job Number: 153656

Description: Roll Stand 14 Vertical

Customer Name:: Nucor Steel

Location : Flowood, MS

Contact:: Cliff Johnson

Manufacturer:: NA

Ratio:: NA

Serial#:: NA

Type:: NA

Model#:: NA

Application ID:: 14 Vertical

Coupling Type: : Gear

Priorities Found:

Gearbox Visual Inspection

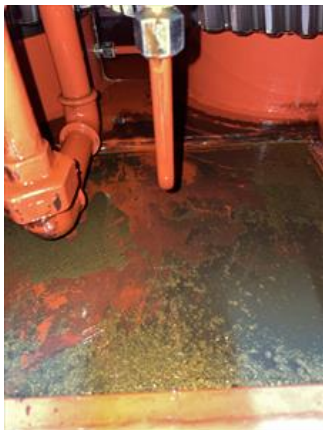
1. Date Inspection Performed **09/17/2024**
2. Oil Condition

Wear

Physical

Contaminants

acceptable



3. Gears:

Wear

Physical

Contaminants

acceptable

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

Printed on 09/24/2024

Powered by **INSPECTALL**

23.0





4. Seals:		
Wear	Physical	Contaminants
acceptable		
5. Environmental Conditions		
Ambient Temperature (F)	Humidity	Contaminants
6. Physical Issues		
Signs of Excessive Heat?	Signs of Lubricant Leaks?	Contaminants
7. Other conditions		
Gearbox Temperature (F)	Moisture Presence	Contaminants
Gearbox Inspection & Evaluation Checklist		
● 8. Primary drive rotates input shaft in correct direction		(Yes) Yes
● 9. Condition of Machinery Guards if Present		(Pass) Acceptable
● 10. Condition of Coupling Guards if Present		(Pass) Acceptable
11. Type of Coupler:		
12. Coupling Alignment		
● 13. Condition of Housing		(Pass) Acceptable
● 14. Condition of Mounting Hardware		(Pass) Acceptable
● 15. Breather Vent Installed:		(Pass) Present/Acceptable
● 16. Condition of Piping & connections (if forced lube system installed)		(Pass) Acceptable
● 17. Condition of switches, alarms, heaters, coolers or other devices		(NA)
● 18. Condition of inspection covers		(Pass) Present/Acceptable
● 19. Condition of seals & bearings		(Pass) Acceptable
● 20. Gearbox Oil Level		(NA)
● 21. Gearbox Oil Level [COPY]		(NA)
22. Type and Grade of Specified Lubricant		
● 23. Correct type and grade of specified lubricant		(NA)
● 24. Appearance of lubricant		(NA)
● 25. Free rotation of shafts		(Yes) Yes
● 26. Condition of Input shaft		(Pass) Acceptable
● 27. Gear tooth condition		(Pass) Acceptable
● 28. Degree of Gear Wear		(None) None/New
● 29. Gear tooth Contact		(Pass) Acceptable

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

Gearbox Summary

30. Summary of Issues and Overall Condition of the Gearbox

No issues to note during this survey

31. Technician Signature

Kevin Maxwell

A handwritten signature in black ink, appearing to read 'K Maxwell', is written over a light gray grid background.



Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

Gearbox Inspection

Nucor Jackson (003555)

3630 Fourth St
Flowood, MS 39232

FolderID: 153656
FormID: 21627269



Gearbox Inspection

Completed by: Kevin Maxwell on 09/24/2024

Location: Roll Mill

Serial Number: 3 STAND MAIN

Job Number: 153656

Description: Roll Stand 3 Main

Customer Name:: Nucor Steel

Location : Flowood, MS

Contact:: Cliff Johnson

Manufacturer:: N/A

Ratio:: N/A

Serial#:: N/A

Type:: N/A

Model#:: N/A

Application ID:: 3 Stand Main

Coupling Type: : Gear

Priorities Found:

Gearbox Visual Inspection

1. Date Inspection Performed **09/16/2024**
2. Oil Condition

Wear

Physical

Contaminants

requires attention

Contaminants in bottom






Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.


Printed on 09/24/2024

Powered by **INSPECTALL**

24.0

3. Gears:			
Wear	Physical	Contaminants	
acceptable			
			
			
4. Seals:			
Wear	Physical	Contaminants	
acceptable			
5. Environmental Conditions			
Ambient Temperature (F)	Humidity	Contaminants	
6. Physical Issues			
Signs of Excessive Heat?	Signs of Lubricant Leaks?	Contaminants	
7. Other conditions			
Gearbox Temperature (F)	Moisture Presence	Contaminants	
Gearbox Inspection & Evaluation Checklist			
<input type="radio"/> 8.	Primary drive rotates input shaft in correct direction	(Yes) Yes	
<input type="radio"/> 9.	Condition of Machinery Guards if Present	(NA)	
<input type="radio"/> 10.	Condition of Coupling Guards if Present	(NA)	
11. Type of Coupler:			
12. Coupling Alignment			
<input type="radio"/> 13.	Condition of Housing	(Pass) Acceptable	

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

● 14. Condition of Mounting Hardware	(Pass) Acceptable
● 15. Breather Vent Installed:	(NA)
● 16. Condition of Piping & connections (if forced lube system installed)	(Pass) Acceptable
● 17. Condition of switches, alarms, heaters, coolers or other devices	(NA)
● 18. Condition of inspection covers	(Pass) Present/Acceptable
● 19. Condition of seals & bearings	(Pass) Acceptable
● 20. Gearbox Oil Level	(NA)
● 21. Gearbox Oil Level [COPY]	(NA)
22. Type and Grade of Specified Lubricant	
● 23. Correct type and grade of specified lubricant	(NA)
● 24. Appearance of lubricant	(NA)
● 25. Free rotation of shafts	(Yes) Yes
● 26. Condition of Input shaft	(Pass) Acceptable
● 27. Gear tooth condition	(Pass) Acceptable
● 28. Degree of Gear Wear	(Mild) Mild
● 29. Gear tooth Contact	(Pass) Acceptable
Gearbox Summary	
30. Summary of Issues and Overall Condition of the Gearbox	
<i>Some contaminants were found in gear casing.</i>	
31. Technician Signature	Kevin Maxwell
	



Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

Gearbox Inspection

Nucor Jackson (003555)

3630 Fourth St
Flowood, MS 39232

FolderID: 153656
FormID: 21627280



Gearbox Inspection

Completed by: Kevin Maxwell on 09/24/2024

Location: Roll Mill

Serial Number: STAND 12

Job Number: 153656

Description: Roll Stand 12

Customer Name:: Nucor Steel

Location : Flowood , MS

Contact:: Cliff Johnson

Manufacturer:: NA

Ratio:: NA

Serial#:: NA

Type:: NA

Model#:: NA

Application ID:: Stand 12

Coupling Type: : Gear

Priorities Found:

Gearbox Visual Inspection

- | | |
|------------------------------|------------|
| 1. Date Inspection Performed | 09/16/2024 |
| 2. Oil Condition | |

Wear	Physical	Contaminants
------	----------	--------------

acceptable

Some contaminants



3. Gears:

Wear	Physical	Contaminants
------	----------	--------------

acceptable

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

Printed on 09/24/2024

Powered by [INSPECTALL](#)

25.0





4. Seals:		
Wear	Physical	Contaminants
acceptable		
5. Environmental Conditions		
Ambient Temperature (F)	Humidity	Contaminants
6. Physical Issues		
Signs of Excessive Heat?	Signs of Lubricant Leaks?	Contaminants
7. Other conditions		
Gearbox Temperature (F)	Moisture Presence	Contaminants
Gearbox Inspection & Evaluation Checklist		
8. Primary drive rotates input shaft in correct direction		(Yes) Yes
9. Condition of Machinery Guards if Present		(Pass) Acceptable
10. Condition of Coupling Guards if Present		(Pass) Acceptable
11. Type of Coupler:		
12. Coupling Alignment		
13. Condition of Housing		(Pass) Acceptable
14. Condition of Mounting Hardware		(Pass) Acceptable
15. Breather Vent Installed:		(NA)
16. Condition of Piping & connections (if forced lube system installed)		(Pass) Acceptable
17. Condition of switches, alarms, heaters, coolers or other devices		(NA)
18. Condition of inspection covers		(Pass) Present/Acceptable
19. Condition of seals & bearings		(Pass) Acceptable
20. Gearbox Oil Level		(NA)
21. Gearbox Oil Level [COPY]		(NA)
22. Type and Grade of Specified Lubricant		
23. Correct type and grade of specified lubricant		(NA)
24. Appearance of lubricant		(Pass) Acceptable
25. Free rotation of shafts		(Yes) Yes
26. Condition of Input shaft		(Pass) Acceptable
27. Gear tooth condition		(Pass) Acceptable
28. Degree of Gear Wear		(Mild) Mild
29. Gear tooth Contact		(Pass) Acceptable

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

Gearbox Summary

30. Summary of Issues and Overall Condition of the Gearbox

Minor gear wear and some small amount of contamination was found in casing.

31. Technician Signature

Kevin Maxwell

A handwritten signature in black ink, appearing to read 'K Maxwell', is written over the signature line.



Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

Gearbox Inspection

Nucor Jackson (003555)

3630 Fourth St
Flowood, MS 39232

FolderID: 153656
FormID: 21627284



Gearbox Inspection

Completed by: Kevin Maxwell on 09/24/2024

Location: Roll Mill

Serial Number: STAND 15

Job Number: 153656

Description: Roll Stand 15

Customer Name:: Nucor Steel

Location : Flowood, MS

Contact:: Cliff Johnson

Manufacturer:: NA

Ratio:: NA

Serial#:: NA

Type:: NA

Model#:: NA

Application ID:: Stand 15

Coupling Type: : Gear

Priorities Found:

Gearbox Visual Inspection

- | | |
|------------------------------|------------|
| 1. Date Inspection Performed | 09/17/2024 |
| 2. Oil Condition | |

Wear

Physical

Contaminants

acceptable



Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.


Printed on 09/24/2024

Powered by INSPECTALL

26.0

3. Gears:		
Wear acceptable	Physical	Contaminants
		
		
4. Seals:		
Wear acceptable	Physical	Contaminants
5. Environmental Conditions		
Ambient Temperature (F)	Humidity	Contaminants
6. Physical Issues		
Signs of Excessive Heat?	Signs of Lubricant Leaks?	Contaminants
7. Other conditions		
Gearbox Temperature (F)	Moisture Presence	Contaminants
Gearbox Inspection & Evaluation Checklist		
8. Primary drive rotates input shaft in correct direction		(Yes) Yes
9. Condition of Machinery Guards if Present		(NA)
10. Condition of Coupling Guards if Present		(NA)
11. Type of Coupler:		
12. Coupling Alignment		
13. Condition of Housing		(Pass) Acceptable

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

● 14. Condition of Mounting Hardware	(Pass) Acceptable
● 15. Breather Vent Installed:	(Pass) Present/Acceptable
● 16. Condition of Piping & connections (if forced lube system installed)	(Pass) Acceptable
● 17. Condition of switches, alarms, heaters, coolers or other devices	(NA)
● 18. Condition of inspection covers	(Pass) Present/Acceptable
● 19. Condition of seals & bearings	(Pass) Acceptable
● 20. Gearbox Oil Level	(NA)
● 21. Gearbox Oil Level [COPY]	(NA)
22. Type and Grade of Specified Lubricant	
● 23. Correct type and grade of specified lubricant	(NA)
● 24. Appearance of lubricant	(NA)
● 25. Free rotation of shafts	(Yes) Yes
● 26. Condition of Input shaft	(Pass) Acceptable
● 27. Gear tooth condition	(Pass) Acceptable
● 28. Degree of Gear Wear ■ <i>Some pitting</i>	(Mild) Mild
● 29. Gear tooth Contact	(Pass) Acceptable
Gearbox Summary	
30. Summary of Issues and Overall Condition of the Gearbox <i>Some mild gear wear/pitting was found during inspection</i>	
31. Technician Signature 	Kevin Maxwell



Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

Gearbox Inspection

Nucor Jackson (003555)

3630 Fourth St
Flowood, MS 39232

FolderID: 153656
FormID: 21627289



Gearbox Inspection

Completed by: Kevin Maxwell on 09/24/2024

Location: Roll Mill

Serial Number: STAND 7

Job Number: 153656

Description: Roll Stand 7

Customer Name:: Nucor Steel

Location : Flowood, MS

Contact:: Cliff Johnson

Manufacturer:: NA

Ratio:: NA

Serial#:: NA

Type:: NA

Model#:: NA

Application ID:: Stand 7

Coupling Type: : Gear

Priorities Found:

Gearbox Visual Inspection

- | | |
|------------------------------|------------|
| 1. Date Inspection Performed | 09/16/2024 |
| 2. Oil Condition | |

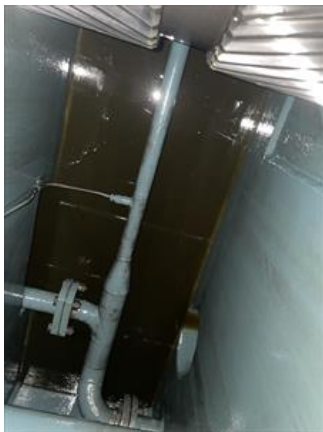
Wear

Physical

Contaminants

acceptable

Some sludge in back corner



Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

Printed on 09/24/2024

Powered by INSPECTALL

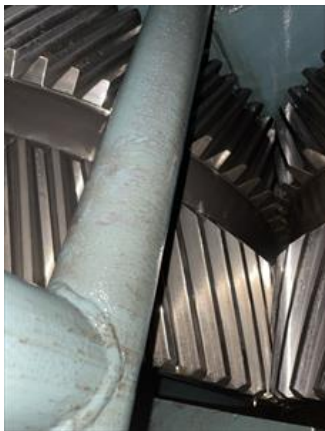
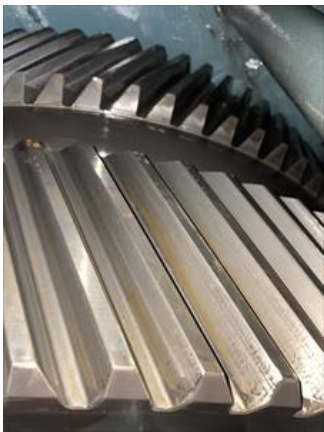
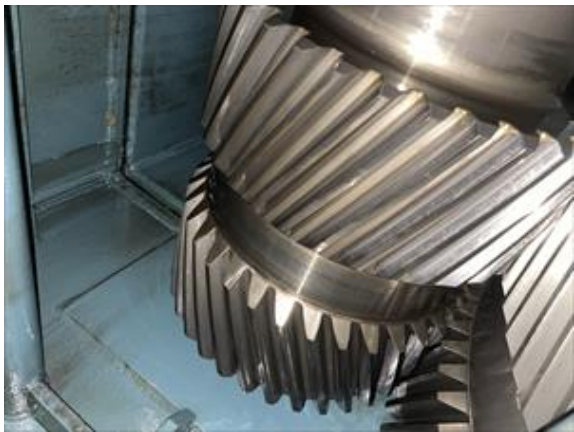
27.0

3. Gears:

Wear
acceptable
Minor gear wear

Physical

Contaminants



4. Seals:

Wear
acceptable

Physical


Contaminants

5. Environmental Conditions

Ambient Temperature (F)

Humidity

Contaminants

6. Physical Issues		
Signs of Excessive Heat?	Signs of Lubricant Leaks?	Contaminants
7. Other conditions		
Gearbox Temperature (F)	Moisture Presence	Contaminants
Gearbox Inspection & Evaluation Checklist		
8. Primary drive rotates input shaft in correct direction		(Yes) Yes
9. Condition of Machinery Guards if Present		(Pass) Acceptable
10. Condition of Coupling Guards if Present		(Pass) Acceptable
11. Type of Coupler:		
12. Coupling Alignment		
13. Condition of Housing		(Pass) Acceptable
14. Condition of Mounting Hardware		(Pass) Acceptable
15. Breather Vent Installed:		(NA)
16. Condition of Piping & connections (if forced lube system installed)		(Pass) Acceptable
17. Condition of switches, alarms, heaters, coolers or other devices		(NA)
18. Condition of inspection covers		(Pass) Present/Acceptable
19. Condition of seals & bearings		(Pass) Acceptable
20. Gearbox Oil Level		(NA)
21. Gearbox Oil Level [COPY]		(NA)
22. Type and Grade of Specified Lubricant		
23. Correct type and grade of specified lubricant		(NA)
24. Appearance of lubricant		(NA)
25. Free rotation of shafts		(Yes) Yes
26. Condition of Input shaft		(Pass) Acceptable
27. Gear tooth condition		(Pass) Acceptable
28. Degree of Gear Wear		(Mild) Mild
29. Gear tooth Contact		(Pass) Acceptable
Gearbox Summary		
30. Summary of Issues and Overall Condition of the Gearbox <i>Some sludge in back corner of gear case and some minor gear wear was found during inspection.</i>		
31. Technician Signature		Kevin Maxwell
		



Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

Gearbox Inspection

Nucor Jackson (003555)

3630 Fourth St
Flowood, MS 39232

FolderID: 153656
FormID: 21627282



Gearbox Inspection

Completed by: Kevin Maxwell on 09/24/2024

Location: Roll Mill

Serial Number: STAND 14

Job Number: 153656

Description: Roll Stand 14

Customer Name:: Nucor Steel

Location : Flowood, MS

Contact:: Cliff Johnson

Manufacturer:: NA

Ratio:: NA

Serial#:: NA

Type:: NA

Model#:: NA

Application ID:: Stand 14

Coupling Type: : Gear

Priorities Found:

Gearbox Visual Inspection

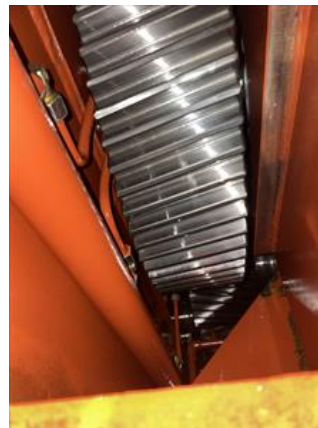
- | | |
|------------------------------|------------|
| 1. Date Inspection Performed | 09/17/2024 |
| 2. Oil Condition | |

Wear

Physical

Contaminants

acceptable







Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.


Printed on 09/24/2024

Powered by [INSPECTALL](#)

28.0

3. Gears:		
Wear acceptable	Physical	Contaminants
		
		
4. Seals:		
Wear acceptable	Physical	Contaminants
5. Environmental Conditions		
Ambient Temperature (F)	Humidity	Contaminants
6. Physical Issues		
Signs of Excessive Heat?	Signs of Lubricant Leaks?	Contaminants
7. Other conditions		
Gearbox Temperature (F)	Moisture Presence	Contaminants
Gearbox Inspection & Evaluation Checklist		
8. Primary drive rotates input shaft in correct direction	(Yes) Yes	
9. Condition of Machinery Guards if Present	(NA)	
10. Condition of Coupling Guards if Present	(NA)	
11. Type of Coupler:		
12. Coupling Alignment		
13. Condition of Housing	(Pass) Acceptable	

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

● 14. Condition of Mounting Hardware	(Pass) Acceptable
● 15. Breather Vent Installed:	(NA)
● 16. Condition of Piping & connections (if forced lube system installed)	(Pass) Acceptable
● 17. Condition of switches, alarms, heaters, coolers or other devices	(NA)
● 18. Condition of inspection covers	(Pass) Present/Acceptable
● 19. Condition of seals & bearings	(Pass) Acceptable
● 20. Gearbox Oil Level	(NA)
● 21. Gearbox Oil Level [COPY]	(NA)
22. Type and Grade of Specified Lubricant	
● 23. Correct type and grade of specified lubricant	(NA)
● 24. Appearance of lubricant	(NA)
● 25. Free rotation of shafts	(Yes) Yes
● 26. Condition of Input shaft	(Pass) Acceptable
● 27. Gear tooth condition	(Pass) Acceptable
● 28. Degree of Gear Wear	(None) None/New
● 29. Gear tooth Contact	(Pass) Acceptable
Gearbox Summary	
30. Summary of Issues and Overall Condition of the Gearbox	
<i>No issues to note</i>	
31. Technician Signature	Kevin Maxwell
	



Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

Gearbox Inspection

Nucor Jackson (003555)

3630 Fourth St
Flowood, MS 39232

FolderID: 153656
FormID: 21627263



Gearbox Inspection

Completed by: Kevin Maxwell on 09/24/2024

Location: Roll Mill

Serial Number: 1A STAND

Job Number: 153656

Description: Roll Stand 1A

Customer Name:: Nucor Steel

Location : Flowood, MS

Contact:: Cliff Johnson

Manufacturer:: N/A

Ratio:: N/A

Serial#:: N/A

Type:: Gearbox

Model#:: N/A

Application ID:: 1A

Coupling Type: : Gear

Priorities Found: ● 1 - High

Gearbox Visual Inspection

1. Date Inspection Performed **09/16/2024**
2. Oil Condition

Wear

Physical

Contaminants

requires attention

Contaminated oil







Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

Printed on 09/24/2024

Powered by **INSPECTALL**

29.0

3. Gears:		
Wear acceptable	Physical	Contaminants
		
		
4. Seals:		
Wear acceptable	Physical	Contaminants
5. Environmental Conditions		
Ambient Temperature (F)	Humidity	Contaminants
6. Physical Issues		
Signs of Excessive Heat?	Signs of Lubricant Leaks?	Contaminants
7. Other conditions		
Gearbox Temperature (F)	Moisture Presence	Contaminants
Gearbox Inspection & Evaluation Checklist		
<input type="radio"/> 8. Primary drive rotates input shaft in correct direction	(Yes) Yes	
<input type="radio"/> 9. Condition of Machinery Guards if Present	(Pass) Acceptable	
10. Condition of Coupling Guards if Present		
11. Type of Coupler:		
12. Coupling Alignment		
<input type="radio"/> 13. Condition of Housing	(Pass) Acceptable	

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

● 14. Condition of Mounting Hardware	(Pass) Acceptable
● 15. Breather Vent Installed:	(Pass) Present/Acceptable
● 16. Condition of Piping & connections (if forced lube system installed)	(Pass) Acceptable
● 17. Condition of switches, alarms, heaters, coolers or other devices	(NA)
● 18. Condition of inspection covers	(Pass) Present/Acceptable
● 19. Condition of seals & bearings	(Pass) Acceptable
● 20. Gearbox Oil Level	(NA)
● 21. Gearbox Oil Level [COPY]	(NA)
22. Type and Grade of Specified Lubricant	
● 23. Correct type and grade of specified lubricant	(NA)
● 24. Appearance of lubricant	(Fail) Unacceptable
● 25. Free rotation of shafts	(Yes) Yes
● 26. Condition of Input shaft	(Pass) Acceptable
● 27. Gear tooth condition	(Pass) Acceptable
● 28. Degree of Gear Wear	(Mild) Mild
● 29. Gear tooth Contact	(Pass) Acceptable
Gearbox Summary	
30. Summary of Issues and Overall Condition of the Gearbox	
<i>Oil and gear casing has contamination.</i>	
31. Technician Signature	Kevin Maxwell
