Report Title
Submitted By Chris Senter
Create Date 07/24/21 8:12 AM
Asset Name TAD # 1 AREA SUMP PUMP
Description OFF LINE AND ON LINE POWER RESULTS

HI-SPEED INDUSTRIAL SERVICE
KEEPING YOUR FACILITY UP TO SPEED
EVERY DAY SINCE 1946

Date: 07/16/21 1:18 PM **Test:** Power Results

VOLTAGE

	Fund RMS	Tot RMS	C.F.	THD
Voltage 1-2	145.70	254.23	2.31	14.45
Voltage 2-3	139.32	252.52	2.24	14.59
Voltage 1-3	143.77	255.09	2.24	16.83
Average	142.93	253.94		
% Imbalance	2.53	0.56	HVF	0.02
% NEMA Derating	92.32	100.00		
Voltage 1	80.65	147.44	2.40	20.79
Voltage 2	83.47	145.95	2.40	15.75
Voltage 3	83.69	146.45	2.32	17.25
Average	82.60	146.62		
% Imbalance	2.37	0.56		

EFFICIENCY

	kW
Efficiency	0.00
HP Output	0.00
kW Output	0.00
Torque Output (ft-lb)	0.00

IMPEDANCE

	Real
% Imbalance	298.50

CURRENT

	Fund RMS	Tot RMS	C.F.	THD
Current 1	17.01	25.45	1.61	12.58
Current 2	17.07	25.48	1.55	17.02
Current 3	16.51	25.86	1.57	13.36
Average	16.86	25.59		
% Imbalance	2.09	1.06		
% FLA	24.80	37.84		

POWER

	kW	kVAR	kVA	Pf
Phase 1	0.83	3.66	3.75	0.60
Phase 2	-0.67	3.66	3.72	-0.47
Phase 3	0.80	3.70	3.79	0.58
Total	0.96	11.02	11.26	0.24

Test: AC Standard
Section: Stator

Test Date	07/16/21
Test Time	11:24 AM
Test Location	Drive Output
Tester Serial	5095
MTap ID	
	Baseline
Frequency	1200
Charge Time	600
Voltage	1000
Motor Temp	50
Measured Mohm	21136.66
Corrected Mohm	42300.00
pF Ph 1 to Ground	109700
ohm Ph 1 to 2	0.31710
ohm Ph 2 to 3	0.31670
ohm Ph 3 to 1	0.31710
mH Ph 1 to 2	5.215
mH Ph 2 to 3	6.148
mH Ph 3 to 1	6.163
Average Inductance	5.842
% Res. Imbalance	0.08
% Ind. Imbalance	10.75

Remarks:The off line data indicates that the motor has some inductive imbalance of 10.75%. some motors can run as high as 17%. i see this as no issue for now.
The online test is indicating that their is a inductive imbalance of 298.5% this is a indication that the drive is going bad. I reccomend changing the drive and retest.