Report TitleMCE Survey ReportSubmitted ByKevin MaxwellCreate Date05/15/25 9:18 AMAsset NameSOUTH SERVICE WATER PUMPDescription



Date: 05/14/25 2	:36 PMDated	Fest Event	<b>Date:</b> 05/14/25 2:36 PM <b>Test:</b> Polarization Index Test
Test Date	05/14/25	05/14/25 2:36 PM	200.00
Test Location	Motor Leade	Lunction Box	<b>5</b> 100.00 <b>-</b>
llear	Administrator	Administrator	50.00 -
Tester Serial	5095	5095	
MT/PID	5055		8 10 10 10 10 10 10 10 10 10 10 10 10 10
NOT ME THE	Baseline		Time (Seconds)
Erequency	1200	1200	
Charge Time	600	600	
Voltage	2500	2500	
Motor Tomp °C	2500	2000	
Motor remp C	20.0	20.0	
Measured Mohm	1,506.39	143.77	
Corrected Mohm	600.00	56.80	Datas 05/14/25 2+26 DMDatad Test Event
pF Ph 1 to Ground	47,500	53,100	Date: 05/14/25 2:50 PWIDated Test Event
ohm Ph 1 to 2	0.8232	0.8220	
ohm Ph 2 to 3	0.8127	0.8126	T . D . 05/14/05 05/14/05
ohm Ph 3 to 1	0.8177	0.8181	Test Date 05/14/25 05/14/25
mH Ph 1 to 2	79.05	79.80	Test Lessing Material Lessing Par
mH Ph 2 to 3	82.70	83.20	User Administrator Administrator
mH Ph 3 to 1	77.35	77.95	Tester Serial 5095 5095
verage Inductance	79.70	80.30	MTAP ID
% Res. Imbalance	0.65	0.61	Baseline
% Ind. Imbalance	3.76	3.59	Voltage 2500 2500
	LOUDE	1	Duration 600 600
			D/A Ratio 1.409 1.055
			Polar. Index 2.827 1.073

**Remarks:** The baseline test is our first test at the motor leads. All values from this test appears to be within IEEE standards. The second test is with the power leads connected to the motor circuit. Notice that the megohm value is much lower. The PI value and the D/A ration are also much lower. This is indication of an insulation issue with the power leads coming form the bucket to the motor. Please note that the RTG test was measured on A phase or leads marked 34. RTG was appeared on B and C phases and showed similar valuesláQ, ^c^\lác@Á^][\dítacA] [\dítacA] [\dítacA] @ \*At ^\*[@ Asat` EOn the next page of this report are Polar Index graphs of ^a&@(Udítac) diftac) All \$\ditacA] \$\ditaC] \$\diA] \$\ditaC] \$\ditaC] \$\ditaC]

## South Service Water Pump 2300v AC Motor

(Tested with Power Leads Connected to Motor Circuit)



Tje top graph shows a flat index which is indicative of moisture and or insulation degradation. The bottom graph shows a healthy motor circuit with a nice linear profile.

300

Time (Seconds)

350

NOD

50

500

550

600

1000 · 500 ·

50

00

150

200

25