



OIL CONDITION MONITORING REPORT

Test Report No.: IGI-INMUM:TR:23:0072		Report Date: 24-06-2023
SUZLON	Customer Name: Suzlon Energy Limited	Sample Ref. No.: INMUM-23-00345
	Customer Address: Suzlon One Earth, Tree Lounge, L-0-LW, Opp to Magarpatta City, Hadapsar, 411028, India	Sample Order No.: 55196670
EQUIPMENT DETAILS		
Plant: Mahidad , Plant Code: 4423	SAP Functional Location: SWSSAN-SC1-INT01-S008	
State: Gujarat , Country: India	Equipment / Component: Fluid Coupling , Oil Grade: OIL MOBIL SHC 524	

Diagnostic Comment: Caution level for **Water Content** & Critical level for **Aluminium** and **Silicon**

Sample Details	Limit	Current	Trend 1	Trend 2	Trend 3	Trend 4
Sample Code		INMUM-23-00345	INMUM-23-00212	INMUM-22-00976	INMUM-22-00642	INMUM-22-00402
Sample Order No.		55196670	5373452	5243091	5196223	5067048
Sampled On		20-06-2023	18-03-2023	19-12-2022	17-09-2022	19-06-2022
Received On		22-06-2023	20-03-2023	21-12-2022	19-09-2022	21-06-2022
Reported On		24-06-2023	22-03-2023	23-12-2022	21-09-2022	23-06-2022
Last Oil Changed		15-03-2022	15-03-2022	15-03-2022	15-03-2022	15-03-2022
Physical Tests						
Kinematic Viscosity @ 40 °C, cSt (D445)	30.4-33.6	33.57	33.20	33.04	31.80	32.60
Kinematic Viscosity @ 100 °C, cSt (D445)		6.367	6.112	6.425	5.877	6.056
Viscosity Index (D2270)		144	137	125	140	129
Total Acid Number, mgKOH/g (D664)		0.760	0.545	0.723	0.640	0.811
Total Base Number, mgKOH/g (D2896)		-	-	-	-	-
Water Content, Vol% (D6304)	<0.03	0.047	0.024	0.011	0.016	0.050
Particle Count (ISO4406)	-/25/15	22/18/13	22/18/13	22/18/13	22/18/13	22/18/13
PQ Index (D893)		0	6	5	5	12
Inductively Coupled Plasma – ICP: Spectro Analysis, ppm wt (D5185)						
Wear Metals						
Iron (Fe)	<40	11	5	30	9	12
Copper (Cu)	<30	1	0	0	2	1
Lead (Pb)		<1	1	1	<1	2
Aluminium (Al)	<8	81	46	15	6	127
Tin (Sn)		0	0	0	0	0
Chromium (Cr)	<4	0	0	0	0	0
Nickel (Ni)		0	33	0	20	0
Titanium (Ti)		0	0	0	0	0
Vanadium (V)		0	2	0	1	0
Silver (Ag)		0	0	7	0	4
Manganese (Mn)		1	5	2	4	9
Additives						
Calcium (Ca)		111	134	110	98	65
Magnesium (Mg)		3	3	3	3	3
Phosphorus (P)		373	765	854	890	650
Zinc (Zn)		231	205	198	204	188
Molybdenum (Mo)		<1	<1	<1	<1	<1
Barium (Ba)		<1	<1	<1	<1	<1
Boron (B)		<1	<1	<1	<1	50
Contamination						
Silicon (Si)	<=3	10	5	2	6	21
Sodium (Na)		<1	3	4	1	7
Potassium (K)		<1	1	<1	2	<1
<reserved row placeholder for extra grease parameter>						
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Remarks:

Physical Tests: Lorem ipsum adipiscing elit, sed do eiusmod incididunt ut labore et dolore magna aliqua. **ICP – Wear Metals:** Lorem ipsum dolor sit amet, elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. **ICP – Additives:** Lorem ipsum dolor sit amet, elit, sed do eiusmod incididunt ut labore et dolore magna aliqua. **ICP – Contamination:** Lorem ipsum dolor sit amet, consectetur adipiscing elit, et dolore magna aliqua.

Report by:
Lab Manager

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