

OIL CONDITION MONITORING REPORT SLNS SAYURA

GEAR BOX PARTICULARS (Information provided by the customer)	
	Stbd Gear Box (No.01)
Make :	Renktack
Model :	ASL 69 GMBH
Sr.No's:	641182
Sampling Date	24 Feb 24
Sampling point :	Lube oil sump
Sampling Method :	Extraction
Type of Lubricant :	Shell Gadinia S3 40
System Capacity :	450 Ltrs

RUNNING HRS DETAILS (Information provided by the customer)	
	Stbd Gear Box (No.01)
Sample ID	M007877
Oil Running Hours	2000.00
Total Running Hours of the Machinery	46652.55

ANALYSIS RESULTS

Viscosity

Description	ASTM Method	Fresh Oil (As per OEM data sheet)	Uncertainty	Stbd Gear Box (S/I-M007877)
Viscosity @ 40°C (cSt)	ASTM D 445	128.00	0.018 Cst	129.48
Viscosity @ 100°C (cSt)		13.70	0.018 Cst	13.92
Viscosity Index	ASTM D2270	103	N/A	104.49

Elemental Concentration as per ASTMD 5185 (ppm)

Element	Maximum Permissible Limit	Fresh Oil Sample	Uncertainty	Stbd Gear Box (S/I-M007877)
Fe	300	< 1.000	2.191	14.842
Cr	15	< 1.000	1.810	< 1.000
Si	50	< 1.000	1.021	9.323
Al	30	< 1.000	1.107	< 1.000
Pb	1500	< 1.000	2.918	23.605
Cu	250	< 1.000	1.064	17.734
Sn	50	< 1.000	0.131	< 1.000
Ni	30	< 1.000	0.090	< 1.000

N/A – Not Available

TREND ANALYSIS WITH PREVIOUS REPORTS

		Fresh Oil Sample	Stbd Gear Box							
			S/I-M000085	S/I-M000776	S/I-M002382	S/I-M002852	S/I-M005947	S/I-M006010	S/I-M006715	S/I-M007877
Oil Running Hrs		-	1214.25	1849.50	3436.45	3935.05	673.25	760.15	1214.20	2000.00
T/R/H of Machinery		-	40867.20	41499.25	43089.40	43587.20	45326.20	45413.10	45867.15	46652.55
Viscosity @ 40°C (cSt)		128.00	N/C	139.17	101.89	128.24	124.25	127.63	127.57	129.48
Viscosity @ 100°C (cSt)		13.70	N/C	14.44	12.04	13.57	13.13	13.97	13.35	13.92
Viscosity Index		103	N/C	102.06	108.45	101.07	99.13	106.98	104.16	104.49
Element	Max. Permissible Limit									
Fe	300	< 1.000	2.388	11.883	5.898	3.985	3.469	3.952	3.611	14.842
Cr	15	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000
Si	50	< 1.000	3.608	7.611	4.162	2.302	3.534	3.589	2.965	9.323
Al	30	< 1.000	3.272	3.151	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000
Pb	1500	< 1.000	5.969	3.478	5.017	10.223	24.223	15.356	8.880	23.605
Cu	250	< 1.000	1.395	1.578	< 1.000	< 1.000	< 1.000	1.004	1.229	17.734
Sn	50	< 1.000	1.754	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000
Ni	30	< 1.000	-	< 1.000	< 1.000	< 1.000	N/C	N/C	N/C	< 1.000

N/A – Not Available

Wear Metals **Stbd Gear Box**

