

OIL CONDITION MONITORING REPORT SLNS SAYURA

GEAR BOX PARTICULARS (Information provided by the customer)	
	Port Gear Box (No.02)
Make :	Renktack
Model :	ASL 69 GMBH
Sr.No's:	641181
Sampling Date	12 May 25
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)	
	Port Gear Box (No.02)
Sample ID	M010166
Oil Running Hours	1931.10
Total Running Hours of the Machinery	49930.35

ANALYSIS RESULTS

Viscosity

Description	ASTM Method	Fresh Oil (As per OEM data sheet)	Uncertainty (K=2)	Port Gear Box (S/I-M010166)
Viscosity @ 40°C (cSt)	ASTM D 445	128.00	0.006	106.82
Viscosity @ 100°C (cSt)		13.70	0.005	12.14
Viscosity Index	ASTM D2270	103	N/A	103.73

Elemental Concentration as per ASTMD 5185 (ppm)

Element	Maximum Permissible Limit	Fresh Oil Sample	Uncertainty (K=2)	Port Gear Box (S/I-M010166)
Fe	300	< 1.000	0.15	12.465
Cr	15	< 1.000	0.18	< 1.000
Si	50	< 1.000	0.17	< 1.000
Al	30	< 1.000	0.28	< 1.000
Pb	1500	< 1.000	0.13	17.614
Cu	250	< 1.000	0.17	5.993
Sn	50	< 1.000	0.20	< 1.000
Ni	30	< 1.000	0.08	< 1.000

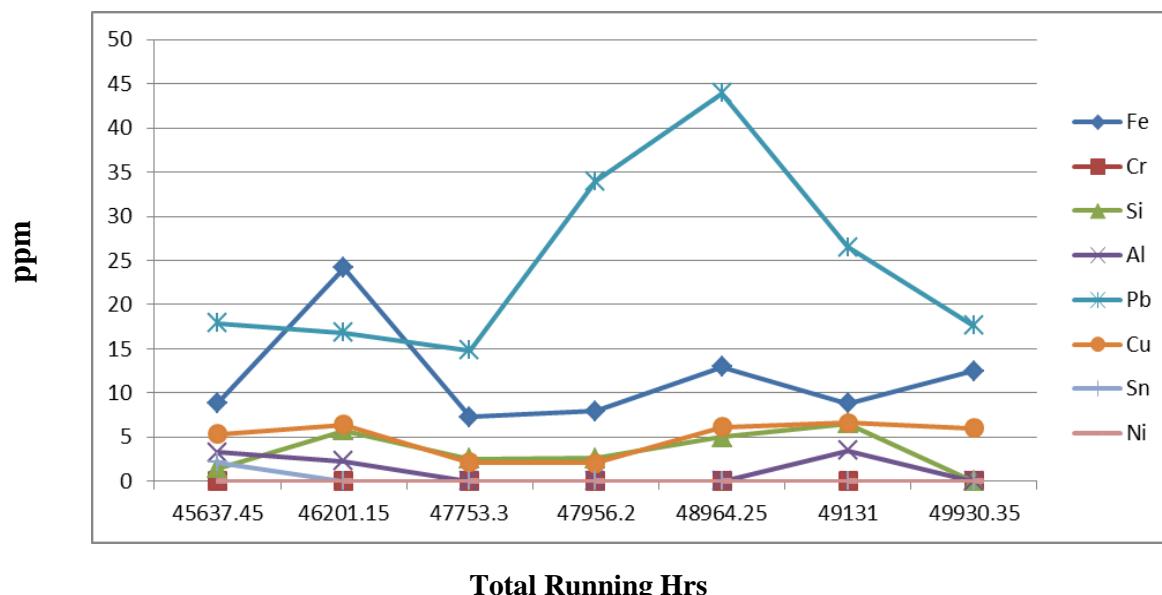
N/A – Not Available

TREND ANALYSIS WITH PREVIOUS REPORTS

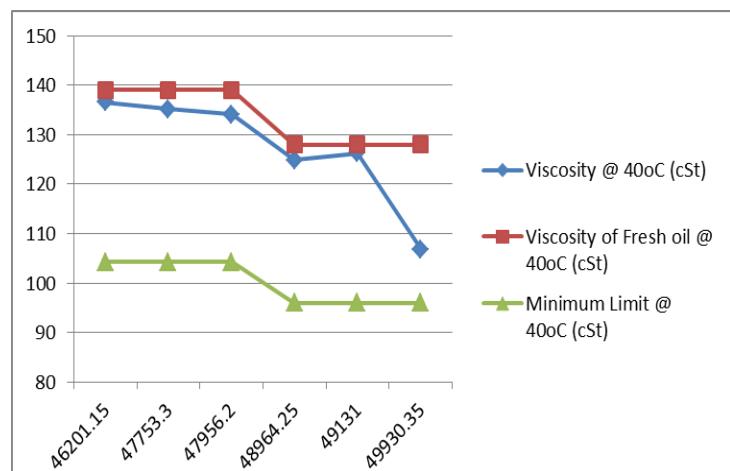
	Fresh Oil Sample	Port Gear Box							
		S/I-M000086	S/I-M000777	S/I-M002383	S/I-M002851	Fresh Oil Sample	S/I-M006304	S/I-M006714	S/I-M010166
Oil Running Hrs	-	2723.15	3325.35	4839.00	5000.00	-	1008.05	1214.20	1931.10
T/R/H of Machinery	-	45637.45	46201.15	47753.30	47956.20	-	48964.25	49131.00	49930.35
Basic Properties-									
Viscosity @ 40°C (cSt)	139.00	-	136.56	135.20	134.14	128.00	124.85	126.24	106.82
Viscosity @ 100°C (cSt)	14.40	-	14.06	13.74	13.74	13.70	13.36	13.76	12.14
Viscosity Index	103	-	99.75	97.21	98.04	103	102.33	105.63	103.73
Element	Max. Permissible Limit								
Fe	300	< 1.000	8.910	24.141	7.280	7.926	< 1.000	12.946	8.793
Cr	15	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000
Si	50	< 1.000	1.486	5.732	2.536	2.616	< 1.000	5.025	6.577
Al	30	< 1.000	3.287	2.267	< 1.000	< 1.000	< 1.000	< 1.000	3.471
Pb	1500	< 1.000	17.878	16.813	14.85	33.995	< 1.000	43.909	26.528
Cu	250	< 1.000	5.349	6.436	2.154	2.091	< 1.000	6.120	6.626
Sn	50	< 1.000	2.156	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000
Ni	30	< 1.000	-	< 1.000	< 1.000	< 1.000	< 1.000	N/A	N/A

Wear Metals

Port Gear Box



Viscosity 40°C



100°C

