

OIL CONDITION MONITORING REPORT SLNA SAGARA

GEAR BOX PARTICULARS (Information provided by the customer)

	Port	Stbd
Make :	RENK ELECON	
Model :	PLS 71	
Sr. No's:	679090	679091
Date sampling :	01 Apr 25	
Sampling point :	Lube Oil Sump	
Sampling Method :	Extraction	
Type of Lubricant :	Shell Gadinia S3 40	
System Capacity :	370 Ltrs	

RUNNING HRS DETAILS (Information provided by the customer)

	Port	Stbd
Sample ID	M009931	M009932
Oil Running Hours	903.48	684.29
Total Running Hours of the Machinery	29473.43	29440.04

ANALYSIS RESULTS

Description	ASTM Method	Fresh Oil (As per OEM datasheet)	Uncertainty	Port Gear Box (S/I-M009931)	Stbd Gear Box (S/I-M009932)
Viscosity @ 40°C (cSt)	ASTM D 445	128.00	0.006 Cst	131.05	128.38
Viscosity @ 100°C (cSt)		13.70	0.005 Cst	13.77	13.53
Viscosity Index	ASTM D2270	103	N/A	101.05	100.42

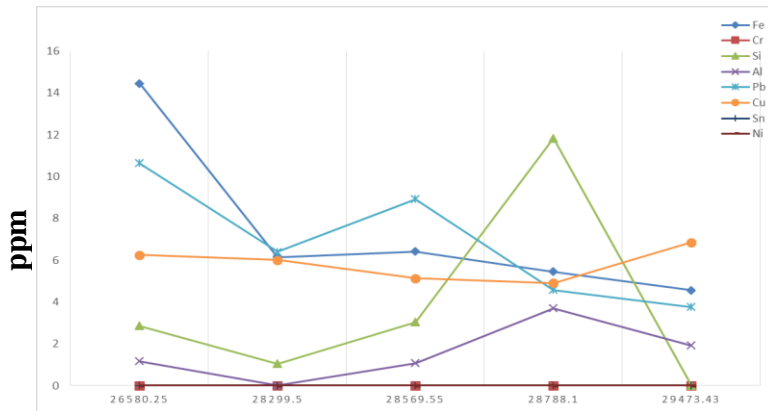
Elemental Concentration as per ASTM D5185 (ppm)

Element	Maximum Permissible Limit	Fresh Oil Sample	Uncertainty	Port Gear Box (S/I-M009931)	Stbd Gear Box (S/I-M009932)
Fe	300	< 1.000	0.15	4.564	3.374
Cr	15	< 1.000	0.18	< 1.000	< 1.000
Si	50	< 1.000	0.17	< 1.000	< 1.000
Al	30	< 1.000	0.28	1.923	1.921
Pb	1500	< 1.000	0.13	3.755	1.587
Cu	250	< 1.000	0.17	6.846	4.150
Sn	50	< 1.000	0.20	< 1.000	< 1.000
Ni	30	< 1.000	0.08	< 1.000	< 1.000

TREND ANALYSIS WITH PREVIOUS REPORTS

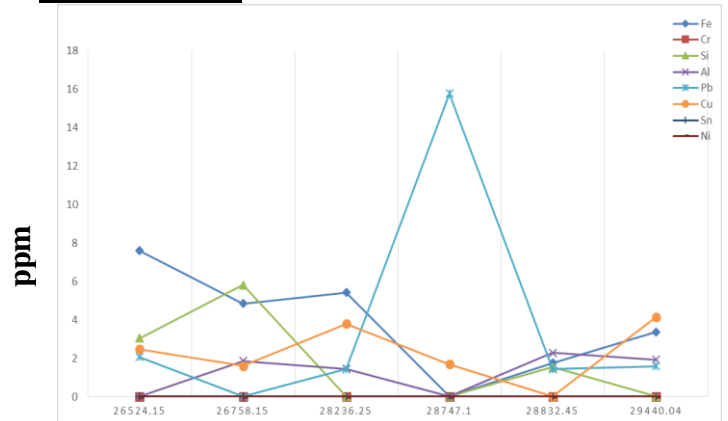
	Fresh Oil Sample	Port Gear Box					Stbd Gear Box						
		S/I-M000625	S/I-M003034	S/I-M003876	S/I-M005810	S/I-M009931	S/I-M000626	S/I-M001267	S/I-M003035	S/I-M004614	S/I-M006387	S/I-M009932	
Oil Running Hrs	-	2028.55	N/I	2000.00	218.15	903.48	2017.55	17.10	N/A	2000.00	77.10	684.29	
T/R/H of Machinery	-	26580.25	28299.50	28569.55	28788.10	29473.43	26524.15	26758.15	28236.25	28747.10	28832.45	29440.04	
Basic Properties													
Viscosity @ 40°C (cSt)	128.00	134.56	135.91	136.20	126.80	131.05	130.37	135.47	135.49	130.22	136.18	128.38	
Viscosity @ 100°C (cSt)	13.70	13.89	13.46	14.11	13.58	13.77	13.68	14.19	13.41	13.82	14.28	13.53	
Viscosity Index	103	99.46	97.71	100.65	102.62	101.05	100.51	102.31	92.88	102.50	102.80	100.42	
Elemental Concentration as per ASTM D5185 (ppm)													
Element	Max. Permissible Limit												
Fe	300	< 1.000	14.460	6.147	6.409	5.445	4.564	7.597	4.847	5.422	< 1.000	1.747	3.374
Cr	15	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000
Si	50	< 1.000	2.861	1.041	3.037	11.829	< 1.000	3.038	5.812	< 1.000	< 1.000	1.534	< 1.000
Al	30	< 1.000	1.164	< 1.000	1.070	3.702	1.923	< 1.000	1.854	1.449	< 1.000	2.288	1.921
Pb	1500	< 1.000	10.639	6.394	8.920	4.573	3.755	2.065	< 1.000	1.436	15.760	1.435	1.587
Cu	250	< 1.000	6.247	6.001	5.141	4.903	6.846	2.468	1.597	3.790	1.681	< 1.000	4.150
Sn	50	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 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/A	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	N/A	< 1.000

Wear Metals Port Gear Box



Total Running Hrs

Stbd Gear Box



Total Running Hrs