

OIL CONDITION MONITORING REPORT SLNS SHAKTHI

GEAR BOX PARTICULARS (Information provided by the customer)	
	Stbd Gear Box
Make :	SHICHUAN
Model :	GWC 3235
Sr.No's:	N/A
Date sampling :	12 May 25
Sampling point :	Lube Oil Sump
Sampling Method :	Extraction
Type of Lubricant :	Caltex Lanka Super 15 W 40
System Capacity :	45 Ltrs

RUNNING HRS DETAILS(Information provided by the customer)	
	Stbd Gear Box
Sample ID	M010154
Oil Running Hours	959.35
Total Running Hours of the Machinery	37647.55

ANALYSIS RESULTS

Description	METHOD	Fresh Oil (As per OEM data sheet)	Uncertainty (K=2)	Stbd Gear Box
				S/I- M010154
Viscosity @ 40°C (cSt)	ASTM D 445	109.4	0.006	84.62
Viscosity @ 100°C (cSt)		14.4	0.005	11.65
Viscosity Index	ASTM D 2270	134	N/A	128.99
Water contain %	ASTM D 95	<0.2	0.082	<0.1

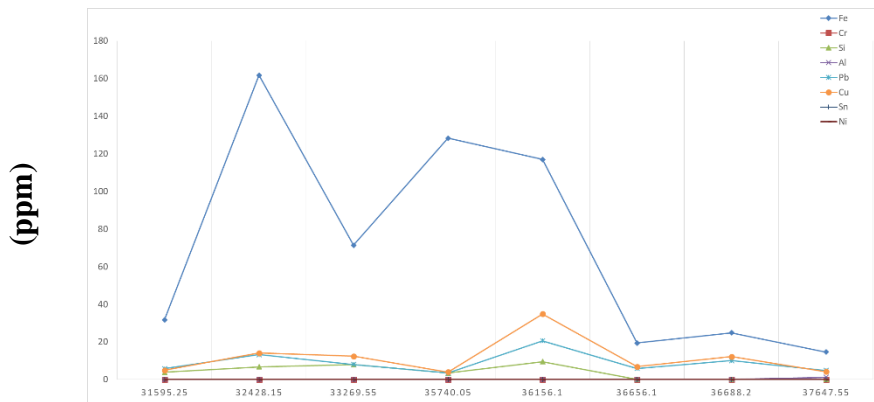
Elemental Concentration as per ASTM D5185 (ppm)

Element	Maximum Permissible Limit	Fresh Oil Sample	Uncertainty (K=2)	Stbd Gear Box
				S/I- M010154
Fe	300	< 1.000	0.15	14.591
Cr	15	< 1.000	0.18	< 1.000
Si	50	< 1.000	0.17	< 1.000
Al	30	< 1.000	0.28	1.185
Pb	1500	< 1.000	0.13	4.788
Cu	250	< 1.000	0.17	4.214
Sn	50	< 1.000	0.20	< 1.000
Ni	30	< 1.000	0.08	< 1.000

TREND ANALYSIS WITH PREVIOUS REPORTS

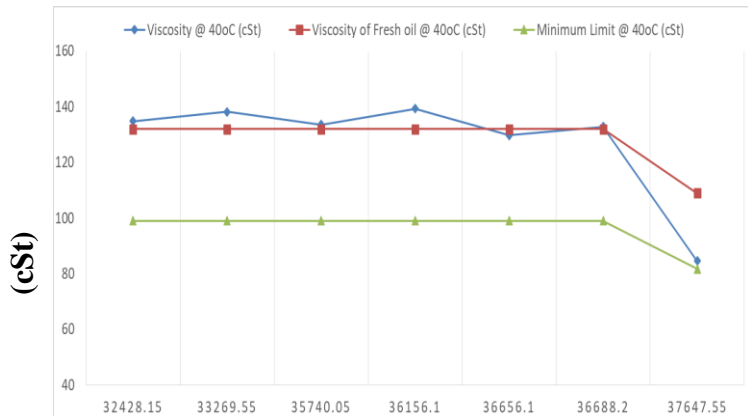
	Fresh oil sample	Stbd Gear Box								
		S/I-M000389	S/I-M000926	S/I-M002463	S/I-M004167	S/I-M006104	S/I-M007847	S/I-M008005	Fresh oil sample	S/I-M010154
Oil Running Hrs	-	995.40	832.50	1030.05	867.35	283.20	500.00	531.45	-	959.35
T/R/H of Machinery	-	31595.25	32428.15	33269.55	35740.05	36156.10	36656.10	36688.20	-	37647.55
Basic Properties										
Viscosity @ 40°C (cSt)	132.31	N/C	134.81	138.18	133.59	139.35	129.71	132.88	109.4	84.62
Viscosity @ 100°C (cSt)	14.4	N/C	14.16	14.30	14.23	14.81	14.07	13.60	14.4	11.65
Viscosity Index	97	N/C	102.54	101.24	104.56	106.46	106.24	97.45	134	128.99
Water contain %	<0.2	N/C	N/C	N/C	N/C	N/C	N/C	N/C	<0.2	<0.1
Elemental Concentration as per ASTM D5185 (ppm)										
Element	Maximum Permissible Limit									
Fe	300	31.764	161.723	71.401	128.269	116.947	19.390	24.846	< 1.000	14.591
Cr	15	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000
Si	50	3.844	6.724	7.926	3.414	9.536	< 1.000	< 1.000	< 1.000	< 1.000
Al	30	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	1.185
Pb	1500	5.801	13.258	7.984	3.432	20.619	5.855	10.033	< 1.000	4.788
Cu	250	4.954	14.061	12.373	3.948	34.856	6.879	12.181	< 1.000	4.214
Sn	50	< 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

Wear Metals



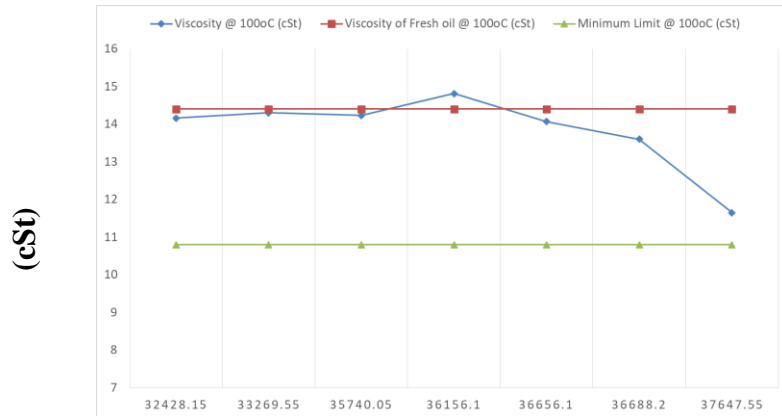
Total Running Hrs

Viscosity 40°C



Total Running Hrs

100°C



Total Running Hrs