

OIL CONDITION MONITORING REPORT SLNS SHAKTHI

GEAR BOX PARTICULARS (Information provided by the customer)	
Make :	Port Gear Box
Model :	SHICHUAN
Sr.No's:	GWC 3235
Date sampling :	N/A
Sampling point :	28 Nov 24
Sampling Method :	Before filter
Type of Lubricant :	Extraction
System Capacity :	Caltex Lanka Super DS 40
	45 Ltrs

RUNNING HRS DETAILS (Information provided by the customer)	
	Port Gear Box
Sample ID	M009165
Oil Running Hours	684.00
Total Running Hours of the Machinery	37440.15

ANALYSIS RESULTS

Description	METHOD	Fresh Oil (As per OEM data sheet)	Uncertainty	Port Gear Box
				S/I- M009165
Viscosity @ 40°C (cSt)	ASTM D 445	132.31 *	0.018 Cst	125.78
Viscosity @ 100°C (cSt)		14.4	0.018 Cst	14.21
Viscosity Index	ASTM D 2270	97	N/A	112.04

* The results were taken from a fresh oil sample which is tested at MTTU laboratory as per ASTM D 445 method.

Elemental Concentration as per ASTM D5185 (ppm)

Element	Maximum Permissible Limit	Fresh Oil Sample	Uncertainty	Port Gear Box
				S/I- M009165
Fe	300	< 1.000	2.191	35.939
Cr	15	< 1.000	1.810	< 1.000
Si	50	< 1.000	1.021	< 1.000
Al	30	< 1.000	1.107	< 1.000
Pb	1500	< 1.000	2.918	8.647
Cu	250	< 1.000	1.064	20.214
Sn	50	< 1.000	0.131	< 1.000
Ni	30	< 1.000	0.090	< 1.000

TREND ANALYSIS WITH PREVIOUS REPORTS

		Fresh Oil Sample	Port Gear Box							
			S/I-M000388	S/I-M000925	S/I-M002462	S/I-M003480	S/I-M004802	S/I-M006948	S/I-M007846	S/I-M009165
Oil Running Hrs	-	903.15	945.50	999.35	714.40	972.00	259.55	250.0	684.00	
T/R/H of Machinery	-	32241.15	33187.05	34337.35	35217.55	36476.30	36747.20	37005.45	37440.15	
Viscosity @ 40°C (cSt)	132.31 *	N/A	135.16	137.82	128.45	136.39	137.69	127.46	125.78	
Viscosity @ 100°C (cSt)	14.4	N/A	13.86	14.15	13.38	14.05	14.38	13.94	14.21	
Viscosity Index	97	N/A	98.62	99.75	98.52	99.76	102.69	106.78	112.04	
Element	Maximum Permissible Limit									
Fe	300	< 1.000	18.652	82.530	74.450	11.000	1.720	44.566	19.930	35.939
Cr	15	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000
Si	50	< 1.000	3.916	6.251	6.525	1.189	< 1.000	6.991	< 1.000	< 1.000
Al	30	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000
Pb	1500	< 1.000	4.442	16.036	9.210	4.445	< 1.000	10.456	5.855	8.647
Cu	250	< 1.000	3.373	11.004	15.193	3.263	3.308	54.787	6.879	20.214
Sn	50	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000

Port

