

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH18M 133780-1840 - Diesel Engine

Sample No: LH

Oil Type: PETRO CANADA DURON UHP 5W30



SERVICES SANITAIRES ST-ANTOINE INC
 16600 RTE SIR WILFRID-LAURIER
 MIRABEL, QC
 CA J7J 2G3
 Contact: Service Manager

T:
F:



SAMPLE INFORMATION

Sample Number	LH	LH0261199	LH0260743	LH0250904
Sample Date	12 Dec 2023	01 Sep 2023	26 May 2023	30 Jan 2023
Machine Hours	3571	2973	2461	1835
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL



OIL CONDITION

Visc @ 100°C	cSt	14.1	13.9	12.2	13.6
Oxidation (PA)	%	68	71	83	72



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	68	76	85	75
Sulfation (PA)	%	56	61	59	60
Glycol	%	NEG	NEG	NEG	0.0
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	22	11	27	30
Sodium	ppm	2	3	5	2
Potassium	ppm	0	0	0	0

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within SAE 40 range, advise investigate. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	13	15	17	20
Copper	ppm	2	3	3	6
Lead	ppm	<1	<1	0	0
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	<1	1	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	65	63	67	64
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1159	1181	911	1200
Magnesium	ppm	1053	1047	1179	1062
Zinc	ppm	1295	1306	1233	1327
Phosphorus	ppm	1060	1126	1100	1163
Barium	ppm	<1	0	0	0
Boron	ppm	2	5	39	2

Depot: SERMIR
 Unique No: 5696825
 Signed: Kevin Marson
 Report Date: 18 Dec 2023



GRAPHS

