

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60M 107906 - Diesel Engine

Sample No: LH

Oil Type: DIESEL ENGINE OIL



LIEBHERR CANADA

10 LYNDS AVENUE

MONCTON, NB

CA E1H 3K2

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SAMPLE INFORMATION

Sample Number	LH	LH0250242	---	---
Sample Date	12 Apr 2023	09 Jan 2023	---	---
Machine Hours	3721	3715	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Not Changd	---	---
Sample Status	MARGINAL	ABNORMAL	---	---



OIL CONDITION

Visc @ 100°C	cSt	11.7	11.5	---	---
Oxidation (PA)	%	104	106	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0	0	---	---
Nitration (PA)	%	130	129	---	---
Sulfation (PA)	%	80	76	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	2.4	2.4	---	---
Silicon	ppm	16	13	---	---
Sodium	ppm	5	4	---	---
Potassium	ppm	0	8	---	---



WEAR METALS

Iron	ppm	23	19	---	---
Copper	ppm	16	15	---	---
Lead	ppm	4	3	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	4	4	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	20	18	---	---
Nickel	ppm	<1	0	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	2	1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	1297	1273	---	---
Magnesium	ppm	861	843	---	---
Zinc	ppm	958	905	---	---
Phosphorus	ppm	874	846	---	---
Barium	ppm	3	2	---	---
Boron	ppm	34	34	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 30 Diesel Engine Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. The condition of the oil is acceptable for the time in service.

Depot: LIEMON

Unique No: 5564147

Signed: Kevin Marson

Report Date: 17 Apr 2023



GRAPHS

