

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 145272-1253 - Diesel Engine

Sample No: LH

Oil Type: DIESEL ENGINE OIL SAE 40



SAMPLE INFORMATION

Sample Number	LH	LH0250165	LH0250171	---
Sample Date	14 Mar 2024	08 Sep 2023	05 Jun 2023	---
Machine Hours	2004	1004	500	---
Oil Hours	0	0	500	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ABNORMAL	NORMAL	NORMAL	---

Industrial Metals

550 Messier St.
Winnipeg, MB
CA R2J 0G5
Contact: Service Manager



OIL CONDITION

Visc @ 100°C	cSt	12.3	12.8	11.8	---
Oxidation (PA)	%	76	73	210	---

T:
F:



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0	0	0	---
Nitration (PA)	%	73	62	99	---
Sulfation (PA)	%	57	58	112	---
Glycol	%	0.0	NEG	NEG	---
Fuel	%	1.3	<1.0	1.2	---
Silicon	ppm	4	6	9	---
Sodium	ppm	2	1	2	---
Potassium	ppm	<1	1	3	---

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	7	6	15	---
Copper	ppm	138	137	275	---
Lead	ppm	4	4	9	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	1	1	4	---
Chromium	ppm	<1	<1	3	---
Molybdenum	ppm	43	57	47	---
Nickel	ppm	0	0	<1	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	<1	---
Manganese	ppm	0	<1	1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	920	1113	1447	---
Magnesium	ppm	749	975	938	---
Zinc	ppm	982	1169	844	---
Phosphorus	ppm	696	1044	779	---
Barium	ppm	<1	2	27	---
Boron	ppm	<1	6	106	---

Depot: IND550WIN
Unique No: 5748114
Signed: Kevin Marson
Report Date: 21 Mar 2024



GRAPHS

