

LIEBHERR

CONSTRUCTION EQUIPMENT



[(341151)] LIEBHERR LH50M 124548-1216 - Diesel Engine

Sample No: LH0279476

Oil Type: DIESEL ENGINE OIL SAE 40



INDUSTRIES GDS INC.
 6 CHEMIN QOSPEM
 POINTE-A-LA-CROIX, QC
 CA G0C 1L0
 Contact: Service Manager



SAMPLE INFORMATION

Sample Number	LH0279476	LH0251082	LH0215589	LH0225571
Sample Date	29 Nov 2023	15 Feb 2023	16 Aug 2022	08 Jun 2022
Machine Hours	8966	8375	7728	7139
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	11.7	12.8	13.0	13.0
Oxidation (PA)	%	80	67	64	67



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	84	77	73	74
Sulfation (PA)	%	57	57	53	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	1.3	<1.0	<1.0	<1.0
Silicon	ppm	6	7	8	6
Sodium	ppm	4	2	2	5
Potassium	ppm	0	0	<1	4



WEAR METALS

Iron	ppm	3	3	3	5
Copper	ppm	2	2	1	1
Lead	ppm	<1	1	1	1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	1	2	1	1
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	59	59	57	60
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	859	1188	1139	1038
Magnesium	ppm	1102	982	949	1013
Zinc	ppm	1197	1241	1187	1237
Phosphorus	ppm	979	1110	1053	1056
Barium	ppm	<1	0	0	0
Boron	ppm	25	1	2	8

T:
F:

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.

Depot: IND6POI
 Unique No: 5694214
 Signed: Kevin Marson
 Report Date: 07 Dec 2023



GRAPHS

