

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 112545-1253 - Diesel Engine

Sample No: LH0270116

Oil Type: DIESEL ENGINE OIL SAE 30



SAMPLE INFORMATION

Sample Number	LH0270116	LH0261585	LH0251782	LH0247428
Sample Date	27 Sep 2023	08 May 2023	10 Mar 2023	13 Dec 2022
Machine Hours	1297	11758	11210	10473
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

GREEN METALS CANADA

224 BEARDS LANE
WOODSTOCK, ON
CA N4S 7W3

Contact: Jamie Depotie
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OIL CONDITION

Visc @ 100°C	cSt	12.4	12.4	12.0	11.8
Oxidation (PA)	%	71	67	74	87



CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	75	72	77	83
Sulfation (PA)	%	55	53	61	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	6	6	6
Sodium	ppm	2	1	2	2
Potassium	ppm	0	0	0	<1



WEAR METALS

Iron	ppm	3	2	3	4
Copper	ppm	1	1	3	3
Lead	ppm	2	<1	2	3
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	<1	1	1	2
Chromium	ppm	0	0	0	0
Molybdenum	ppm	61	60	61	59
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1085	1138	1175	1129
Magnesium	ppm	1009	968	973	999
Zinc	ppm	1233	1208	1223	1226
Phosphorus	ppm	1027	1073	1116	1096
Barium	ppm	<1	0	0	0
Boron	ppm	3	3	6	3

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. The condition of the oil is acceptable for the time in service.

Depot: GRE224WOO
Unique No: 5646892
Signed: Wes Davis
Report Date: 28 Sep 2023



GRAPHS

