

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 112545-1253 - Diesel Engine

Sample No: LH

Oil Type: DIESEL ENGINE OIL SAE 30



SAMPLE INFORMATION

Sample Number	LH	LH0270116	LH0261585	LH0251782
Sample Date	07 Dec 2023	27 Sep 2023	08 May 2023	10 Mar 2023
Machine Hours	13530	1297	11758	11210
Oil Hours	0	0	0	0
Oil Changed	N/A	N/A	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	12.5	12.4	12.4	12.0
Oxidation (PA)	%	71	71	67	74



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	74	75	72	77
Sulfation (PA)	%	54	55	53	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	7	6	6
Sodium	ppm	2	2	1	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. The condition of the oil is acceptable for the time in service.



WEAR METALS

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



ADDITIVES

Calcium	ppm	1189	1085	1138	1175
Magnesium	ppm	949	1009	968	973
Zinc	ppm	1209	1233	1208	1223
Phosphorus	ppm	984	1027	1073	1116
Barium	ppm	<1	<1	0	0
Boron	ppm	3	3	3	6

Depot: GRE224WOO
Unique No: 5694883
Signed: Wes Davis
Report Date: 08 Dec 2023



GRAPHS

