

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 145461-1216 - Diesel Engine

Sample No: LH0255625

Oil Type: DIESEL ENGINE OIL SAE 30



GENERAL RECYCLING INDUSTRIES LTD.
 4120 - 84 AVENUE NW
 EDMONTON, AB
 CA T6B 3H3
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Sample Information

Sample Number	LH0255625	LH0255616	LH0255613	LH0255604
Sample Date	21 Feb 2024	25 Nov 2023	14 Sep 2023	26 Jun 2023
Machine Hours	3170	2400	1812	1086
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	N/A
Sample Status	NORMAL	MARGINAL	NORMAL	NORMAL



Oil Condition

Visc @ 100°C	cSt	10.9	10.7	10.8	11.3
Oxidation (PA)	%	68	72	78	92



Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	70	69	68	68
Sulfation (PA)	%	53	54	58	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	1.1	2	<1.0	1.7
Silicon	ppm	5	6	7	4
Sodium	ppm	1	2	2	2
Potassium	ppm	2	0	0	<1



Wear Metals

Iron	ppm	4	4	5	5
Copper	ppm	4	9	42	101
Lead	ppm	0	1	2	3
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	1	2	1	<1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	55	56	55	54
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	<1	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	1084	1002	1002	1058
Magnesium	ppm	951	944	940	938
Zinc	ppm	1184	1172	1172	1125
Phosphorus	ppm	1043	1039	1005	1004
Barium	ppm	<1	<1	2	6
Boron	ppm	2	2	4	16

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 (GENERIC) DIESEL ENGINE OIL SAE 30. Please confirm. 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: GEN156EDM
 Unique No: 5776378
 Signed: Wes Davis
 Report Date: 15 May 2024



Graphs

