

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 119193-1253 - Diesel Engine

Sample No: LH0278602

Oil Type: PETRO CANADA 10W40



SAMPLE INFORMATION

Sample Number	LH0278602	LH0270555	LH0261284	LH0234937
Sample Date	06 Feb 2024	04 Oct 2023	19 Apr 2023	14 Nov 2022
Machine Hours	5666	5149	4489	3951
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	ABNORMAL	NORMAL	ABNORMAL

BRIGHTON RECYCLING

686 COUNTY RD 64
BRIGHTON, ON
CA K0K 1H0
Contact: Angel Guan
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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.3	12.2	11.0
Oxidation (PA)	%	63	74	62	92



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	67	76	65	85
Sulfation (PA)	%	51	58	52	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	2
Silicon	ppm	5	7	7	7
Sodium	ppm	1	4	2	5
Potassium	ppm	<1	5	<1	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.



WEAR METALS

Iron	ppm	3	7	4	6
Copper	ppm	2	6	3	8
Lead	ppm	<1	3	<1	2
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	2	2	2
Chromium	ppm	0	<1	0	0
Molybdenum	ppm	57	60	56	56
Nickel	ppm	<1	0	0	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1057	1039	1160	838
Magnesium	ppm	948	964	915	1078
Zinc	ppm	1165	1172	1176	1145
Phosphorus	ppm	1007	943	1069	995
Barium	ppm	0	<1	0	0
Boron	ppm	1	1	11	16

Depot: BRI686BRI
Unique No: 5736290
Signed: Wes Davis
Report Date: 01 Mar 2024



GRAPHS

