

LIEBHERR

CONSTRUCTION EQUIPMENT



[(369353)] LIEBHERR LH30M 136880-1253 - Diesel Engine

Sample No: LH0242043

Oil Type: PETRO CANADA 10W40



SAMPLE INFORMATION

Sample Number	LH0242043	LH0260560	LH0260668	LH0226442
Sample Date	23 Nov 2023	12 Sep 2023	27 Jul 2023	13 Feb 2023
Machine Hours	4745	4272	3963	2833
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

West Coast Metal Recycling

5771 Production Way

Langley, BC

CA V3A 4N5

Contact: Terry .

terry@gotmetal.ca

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OIL CONDITION

Visc @ 100°C	cSt	13.9	13.7	13.1	13.1
Oxidation (PA)	%	57	60	93	211



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	49	55	88	143
Sulfation (PA)	%	50	51	68	108
Glycol	%	NEG	NEG	NEG	0.0
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	8	8	7
Sodium	ppm	1	1	2	4
Potassium	ppm	0	1	<1	2

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	2	3	9	33
Copper	ppm	<1	3	19	155
Lead	ppm	0	<1	1	12
Tin	ppm	0	<1	<1	2
Aluminum	ppm	<1	1	1	3
Chromium	ppm	0	<1	<1	2
Molybdenum	ppm	58	58	66	60
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	<1	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1067	1137	1359	1594
Magnesium	ppm	955	948	789	690
Zinc	ppm	1198	1222	1172	1025
Phosphorus	ppm	1008	1079	1002	896
Barium	ppm	<1	0	2	21
Boron	ppm	1	3	11	33

Depot: WES577LAN

Unique No: 5685146

Signed: Kevin Marson

Report Date: 01 Dec 2023



GRAPHS

