

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 135986 - Diesel Engine

Sample No: LH

Oil Type: DIESEL ENGINE OIL SAE 40



Sample Information

Sample Number	LH	LH0278480	LH	LH0265910
Sample Date	07 May 2024	22 Dec 2023	04 Oct 2023	26 Jun 2023
Machine Hours	4737	3966	0	0
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	Not Changd	N/A
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	NORMAL

Industrial Metals

550 Messier St.
Winnipeg, MB
CA R2J 0G5
Contact: Service Manager



Oil Condition

Visc @ 100°C	cSt	10.8	10.4	10.5	12.1
Oxidation (PA)	%	86	77	65	61

T:
F:



Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	83	75	62	58
Sulfation (PA)	%	59	57	52	51
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	0.3	1.6	1.3	1.5
Silicon	ppm	6	6	6	6
Sodium	ppm	4	1	2	1
Potassium	ppm	<1	0	0	0

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.



Wear Metals

Iron	ppm	4	5	3	3
Copper	ppm	2	4	2	2
Lead	ppm	0	1	<1	<1
Tin	ppm	0	<1	0	0
Aluminum	ppm	1	2	1	<1
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	58	59	60	57
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	851	1070	1069	1036
Magnesium	ppm	1094	979	998	972
Zinc	ppm	1198	1176	1230	1195
Phosphorus	ppm	960	992	1008	1047
Barium	ppm	0	<1	<1	0
Boron	ppm	30	<1	2	1

Depot: IND550WIN
Unique No: 5775642
Signed: Kevin Marson
Report Date: 13 May 2024



Graphs

