

LIEBHERR

CONSTRUCTION EQUIPMENT



[(344091)] LIEBHERR LH40M 120553-1215 - Diesel Engine

Sample No: LH0286427

Oil Type: PETRO CANADA 10W40



Goodies Trading Ltd.
8150 Aitken Road
Chilliwack, BC
CA V2R 4H5
Contact: Service Manager



Sample Information

Sample Number	LH0286427	LH0193857	LH0260394	LH0193860
Sample Date	06 Jun 2024	13 Feb 2024	16 Aug 2023	21 Feb 2023
Machine Hours	4500	4086	3448	2835
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



Oil Condition

Visc @ 100°C	cSt	13.0	12.8	12.5	13.1
Oxidation (PA)	%	63	71	79	137

T:
F:



Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	70	83	88	151
Sulfation (PA)	%	52	57	62	84
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	9	9	8
Sodium	ppm	<1	1	2	2
Potassium	ppm	0	1	3	27

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	4	4	6	23
Copper	ppm	1	2	4	12
Lead	ppm	0	<1	<1	1
Tin	ppm	0	<1	<1	2
Aluminum	ppm	<1	2	1	9
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	58	57	59	60
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	<1	<1	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	1027	1111	1055	1123
Magnesium	ppm	968	938	966	982
Zinc	ppm	1182	1171	1150	1240
Phosphorus	ppm	991	978	970	1081
Barium	ppm	0	0	<1	1
Boron	ppm	<1	1	1	2

Depot: GOOCHI
Unique No: 5798875
Signed: Wes Davis
Report Date: 12 Jun 2024



Graphs

