

LIEBHERR

CONSTRUCTION EQUIPMENT



[(344443)] LIEBHERR LH24 118108-1251 - Diesel Engine

Sample No: LH0250466

Oil Type: CHEVRON DELO 400 SYNTHETIC 5W40



ABC RECYCLING
 8081 MEADOW AVE.
 BURNABY, BC
 CA V3N 2V9
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Sample Information

Sample Number	LH0250466	LH0194119	LH0194116	LH0194063
Sample Date	04 Apr 2024	04 Apr 2023	26 Jan 2023	24 Nov 2022
Machine Hours	7662	5211	4500	4075
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



Oil Condition

Visc @ 100°C	cSt	13.4	13.4	14.1	13.6
Oxidation (PA)	%	55	58	54	54



Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	66	73	69	69
Sulfation (PA)	%	47	55	55	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	8	7	7
Sodium	ppm	2	3	3	3
Potassium	ppm	0	2	3	2



Wear Metals

Iron	ppm	8	12	9	9
Copper	ppm	<1	5	4	14
Lead	ppm	0	<1	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	2	1	<1	1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	4	2	<1	1
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	2133	1517	1389	1312
Magnesium	ppm	91	723	702	645
Zinc	ppm	1101	815	763	711
Phosphorus	ppm	915	782	734	679
Barium	ppm	0	0	0	0
Boron	ppm	5	70	76	65

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.

Depot: ABCBUR
 Unique No: 5772021
 Signed: Wes Davis
 Report Date: 23 Apr 2024



Graphs

