

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 138442 - Diesel Engine

Sample No: LH0278794

Oil Type: DIESEL ENGINE OIL SAE 30



LIEBHERR CANADA LTD.
 1015 SUTTON DRIVE
 BURLINGTON, ON
 CA L7L 5Z8
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SAMPLE INFORMATION

Sample Number	LH0278794	LH0281416	---	---
Sample Date	21 Jan 2024	07 Dec 2023	---	---
Machine Hours	6157	5641	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---



OIL CONDITION

Visc @ 40°C	cSt	87.2	---	---
Visc @ 100°C	cSt	---	12.4	---
Oxidation (PA)	%	---	76	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	---	0	---	---
Nitration (PA)	%	---	72	---	---
Sulfation (PA)	%	---	57	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	6	7	---	---
Sodium	ppm	1	2	---	---
Potassium	ppm	6	3	---	---



WEAR METALS

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



ADDITIVES

Calcium	ppm	1114	1157	---	---
Magnesium	ppm	944	950	---	---
Zinc	ppm	1188	1218	---	---
Phosphorus	ppm	1008	977	---	---
Barium	ppm	0	<1	---	---
Boron	ppm	3	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.

Depot: LIEMIS
 Unique No: 5711444
 Signed: Wes Davis
 Report Date: 24 Jan 2024



GRAPHS

