

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L550 73916 - Diesel Engine

Sample No: LH0277538

Oil Type: DIESEL ENGINE OIL SAE 40



SAMPLE INFORMATION

Sample Number	LH0277538	LH0277823	LH0270421	---
Sample Date	21 Jan 2024	27 Nov 2023	17 Sep 2023	---
Machine Hours	1515	1059	583	---
Oil Hours	0	0	0	---
Oil Changed	N/A	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

LIEBHERR CANADA LTD.

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OIL CONDITION

Visc @ 100°C	cSt	13.3	13.2	11.7	---
Oxidation (PA)	%	63	76	212	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0	0	0	---
Nitration (PA)	%	58	60	98	---
Sulfation (PA)	%	53	58	112	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	1.4	---
Silicon	ppm	7	6	11	---
Sodium	ppm	1	2	2	---
Potassium	ppm	2	0	5	---

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	5	6	12	---
Copper	ppm	8	41	258	---
Lead	ppm	<1	2	10	---
Tin	ppm	<1	<1	2	---
Aluminum	ppm	2	1	3	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	56	54	46	---
Nickel	ppm	0	<1	<1	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	<1	0	---
Manganese	ppm	0	0	1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1105	1120	1375	---
Magnesium	ppm	941	910	939	---
Zinc	ppm	1160	1114	849	---
Phosphorus	ppm	986	932	718	---
Barium	ppm	<1	4	33	---
Boron	ppm	5	8	75	---

Depot: LIEMIS
Unique No: 5711337
Signed: Wes Davis
Report Date: 23 Jan 2024



GRAPHS

