

LIEBHERR

CONSTRUCTION EQUIPMENT



25623 - Diesel Engine

Sample No: LH0274868

Oil Type: {unknown}



SAMPLE INFORMATION

Sample Number	LH0274868	LH0270265	---	---
Sample Date	18 Mar 2024	25 Sep 2023	---	---
Machine Hours	1571	546	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	11.7	11.8	---	---
Oxidation (PA)	%	84	90	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0	0	---	---
Nitration (PA)	%	83	76	---	---
Sulfation (PA)	%	58	62	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	1.4	1.7	---	---
Silicon	ppm	8	4	---	---
Sodium	ppm	4	4	---	---
Potassium	ppm	<1	<1	---	---



WEAR METALS

Iron	ppm	5	6	---	---
Copper	ppm	174	182	---	---
Lead	ppm	4	5	---	---
Tin	ppm	0	<1	---	---
Aluminum	ppm	2	1	---	---
Chromium	ppm	<1	1	---	---
Molybdenum	ppm	59	60	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	0	0	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	869	943	---	---
Magnesium	ppm	1138	1011	---	---
Zinc	ppm	1227	1132	---	---
Phosphorus	ppm	1027	953	---	---
Barium	ppm	0	7	---	---
Boron	ppm	33	41	---	---

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 30 Diesel Engine Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected 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.

Depot: LIEMIS
 Unique No: 5748130
 Signed: Kevin Marson
 Report Date: 20 Mar 2024



GRAPHS

