

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LB35 115696 - Diesel Engine

Sample No: LH0274866

Oil Type: {unknown}



SAMPLE INFORMATION

Sample Number	LH0274866	---	---	---
Sample Date	29 Feb 2024	---	---	---
Machine Hours	2999	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---



OIL CONDITION

Visc @ 100°C	cSt	12.0	---	---	---
Oxidation (PA)	%	101	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	0	---	---	---
Nitration (PA)	%	99	---	---	---
Sulfation (PA)	%	69	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	1.5	---	---	---
Silicon	ppm	5	---	---	---
Sodium	ppm	5	---	---	---
Potassium	ppm	13	---	---	---



WEAR METALS

Iron	ppm	12	---	---	---
Copper	ppm	4	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	5	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	59	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	0	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	993	---	---	---
Magnesium	ppm	1075	---	---	---
Zinc	ppm	1231	---	---	---
Phosphorus	ppm	1024	---	---	---
Barium	ppm	<1	---	---	---
Boron	ppm	15	---	---	---



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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. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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: 5736631
Signed: Kevin Marson
Report Date: 06 Mar 2024



GRAPHS

