

LIEBHERR

CONSTRUCTION EQUIPMENT



2018.03.8865 - Diesel Engine

Sample No: LH0274480

Oil Type: NOT GIVEN



SAMPLE INFORMATION

Sample Number	LH0274480	---	---	---
Sample Date	05 Sep 2023	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

LIEBHERR CANADA LTD. - REMAN
 1015 SUTTON DRIVE
 BURLINGTON, ON
 CA L7L 5Z8
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OIL CONDITION

Visc @ 100°C	cSt	11.4	---	---	---
Oxidation (PA)	%	96	---	---	---



CONTAMINATION

Soot %	%	0	---	---	---
Nitration (PA)	%	115	---	---	---
Sulfation (PA)	%	67	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	1.2	---	---	---
Silicon	ppm	8	---	---	---
Sodium	ppm	1	---	---	---
Potassium	ppm	6	---	---	---



WEAR METALS

Iron	ppm	12	---	---	---
Copper	ppm	4	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	4	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	46	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	1290	---	---	---
Magnesium	ppm	891	---	---	---
Zinc	ppm	821	---	---	---
Phosphorus	ppm	665	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	38	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity 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: REMAN
Unique No: 5633689
Signed: Kevin Marson
Report Date: 07 Sep 2023



GRAPHS

