

LIEBHERR

CONSTRUCTION EQUIPMENT



U22.03.90018 - Diesel Engine

Sample No: LH0242558

Oil Type: LIEBHERR MOTOROIL 5W30



SAMPLE INFORMATION

Sample Number	LH0242558	---	---	---
Sample Date	10 Oct 2023	---	---	---
Machine Hours	46	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
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	● 12.2	---	---	---
Oxidation (PA)	%	● 39	---	---	---



CONTAMINATION

Soot %	%	● 0	---	---	---
Nitration (PA)	%	● 83	---	---	---
Sulfation (PA)	%	● 40	---	---	---
Glycol	%	● NEG	---	---	---
Fuel	%	● <1.0	---	---	---
Silicon	ppm	● 12	---	---	---
Sodium	ppm	● 15	---	---	---
Potassium	ppm	● 1	---	---	---

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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	● 8	---	---	---
Copper	ppm	● 5	---	---	---
Lead	ppm	● 2	---	---	---
Tin	ppm	● <1	---	---	---
Aluminum	ppm	● 3	---	---	---
Chromium	ppm	● 0	---	---	---
Molybdenum	ppm	● 2	---	---	---
Nickel	ppm	● <1	---	---	---
Titanium	ppm	● 0	---	---	---
Silver	ppm	● <1	---	---	---
Manganese	ppm	● 0	---	---	---
Vanadium	ppm	● 0	---	---	---



ADDITIVES

Calcium	ppm	● 5009	---	---	---
Magnesium	ppm	● 49	---	---	---
Zinc	ppm	● 1337	---	---	---
Phosphorus	ppm	● 1190	---	---	---
Barium	ppm	● 48	---	---	---
Boron	ppm	● 274	---	---	---

Depot: REMAN
Unique No: 5669978
Signed: Wes Davis
Report Date: 31 Oct 2023



GRAPHS

