

LIEBHERR

CONSTRUCTION EQUIPMENT



U23.04.90004 - Diesel Engine

Sample No: LH0247136

Oil Type: CHEVRON 15W40



SAMPLE INFORMATION

Sample Number	LH0247136	---	---	---
Sample Date	10 Jul 2023	---	---	---
Machine Hours	50	---	---	---
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	13.8	---	---	---
Oxidation (PA)	%	50	---	---	---



CONTAMINATION

Soot %	%	0	---	---	---
Nitration (PA)	%	43	---	---	---
Sulfation (PA)	%	52	---	---	---
Glycol	%	0.0	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	9	---	---	---
Sodium	ppm	22	---	---	---
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	6	---	---	---
Copper	ppm	13	---	---	---
Lead	ppm	2	---	---	---
Tin	ppm	1	---	---	---
Aluminum	ppm	2	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	77	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	1708	---	---	---
Magnesium	ppm	335	---	---	---
Zinc	ppm	1199	---	---	---
Phosphorus	ppm	1111	---	---	---
Barium	ppm	9	---	---	---
Boron	ppm	393	---	---	---

Depot: REMAN
 Unique No: 5616710
 Signed: Wes Davis
 Report Date: 24 Jul 2023



GRAPHS

