

LIEBHERR

CONSTRUCTION EQUIPMENT



9912-0265 - Diesel Engine

Sample No: LH0274813

Oil Type: CHEVRON DELO LE 5W40



SAMPLE INFORMATION

Sample Number	LH0274813	---	---	---
Sample Date	01 Dec 2023	---	---	---
Machine Hours	29341	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

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

Visc @ 100°C	cSt	13.3	---	---	---
Base Number (BN)	mg KOH/g	9.6	---	---	---
Oxidation (PA)	%	63	---	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	0.1	---	---	---
Nitration (PA)	%	53	---	---	---
Sulfation (PA)	%	52	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	10	---	---	---
Sodium	ppm	11	---	---	---
Potassium	ppm	1	---	---	---



WEAR METALS

Iron	ppm	7	---	---	---
Copper	ppm	2	---	---	---
Lead	ppm	0	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	2	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	56	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	895	---	---	---
Magnesium	ppm	1039	---	---	---
Zinc	ppm	1293	---	---	---
Phosphorus	ppm	1054	---	---	---
Barium	ppm	9	---	---	---
Boron	ppm	50	---	---	---

Depot: REMAN
Unique No: 10778928
Signed: Wes Davis
Report Date: 09 Dec 2023



GRAPHS

