

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A924 060467 - Diesel Engine

Sample No: LH0250566

Oil Type: PETRO CANADA 10W40



Liebherr Canada
 140 - 21320 Gordon Way
 Richmond, BC
 CA V6W 1J8
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SAMPLE INFORMATION

Sample Number	LH0250566	LH0240691	---	---
Sample Date	12 Sep 2023	19 Oct 2022	---	---
Machine Hours	23124	21820	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---



OIL CONDITION

Visc @ 100°C	cSt	13.7	13.3	---	---
Oxidation (PA)	%	59	62	---	---



CONTAMINATION

Soot %	%	1.1	0.8	---	---
Nitration (PA)	%	65	71	---	---
Sulfation (PA)	%	58	58	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	7	6	---	---
Sodium	ppm	2	2	---	---
Potassium	ppm	<1	<1	---	---



WEAR METALS

Iron	ppm	18	14	---	---
Copper	ppm	2	8	---	---
Lead	ppm	<1	<1	---	---
Tin	ppm	0	<1	---	---
Aluminum	ppm	1	1	---	---
Chromium	ppm	<1	0	---	---
Molybdenum	ppm	63	62	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	0	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	1097	1242	---	---
Magnesium	ppm	986	866	---	---
Zinc	ppm	1238	1219	---	---
Phosphorus	ppm	1034	1091	---	---
Barium	ppm	0	0	---	---
Boron	ppm	3	8	---	---

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 condition of the oil is acceptable for the time in service.

Depot: LIERIC
Unique No: 5645880
Signed: Bill Quesnel
Report Date: 26 Sep 2023



GRAPHS

