

LIEBHERR

CONSTRUCTION EQUIPMENT



102383 - Diesel Engine

Sample No: LH0250850

Oil Type: PETRO CANADA 10W30



SAMPLE INFORMATION

Sample Number	LH0250850	LH0202375	---	---
Sample Date	20 Sep 2023	24 Sep 2021	---	---
Machine Hours	4142	2934	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

American Iron and Metal

75 Steel City Court
Hamilton, ON
CA L8H 3Y2
Contact: Heavy Equipment
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OIL CONDITION

Visc @ 100°C	cSt	11.5	13.1	---	---
Oxidation (PA)	%	73	59	---	---



CONTAMINATION

Soot %	%	0	0	---	---
Nitration (PA)	%	68	63	---	---
Sulfation (PA)	%	56	53	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	7	6	---	---
Sodium	ppm	4	2	---	---
Potassium	ppm	0	1	---	---

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.



WEAR METALS

Iron	ppm	2	3	---	---
Copper	ppm	<1	1	---	---
Lead	ppm	<1	<1	---	---
Tin	ppm	0	<1	---	---
Aluminum	ppm	<1	1	---	---
Chromium	ppm	0	<1	---	---
Molybdenum	ppm	61	50	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	<1	<1	---	---
Manganese	ppm	0	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	816	1197	---	---
Magnesium	ppm	1085	864	---	---
Zinc	ppm	1200	1201	---	---
Phosphorus	ppm	1009	1040	---	---
Barium	ppm	<1	0	---	---
Boron	ppm	40	11	---	---

Depot: AMEHAM
Unique No: 5656161
Signed: Kevin Marson
Report Date: 05 Oct 2023



GRAPHS

