

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 086895 - Diesel Engine

Sample No: LH
Oil Type: SAE 10W40



LIEBHERR CANADA LTD.
10374 267 ST.
ACHESON, AB
CA T7X 6A2
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Sample Information

Sample Number	LH	---	---	---
Sample Date	22 Mar 2024	---	---	---
Machine Hours	25110	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---



Oil Condition

Visc @ 100°C	cSt	13.5	---	---	---
Oxidation (PA)	%	97	---	---	---



Contamination

Water	%	NEG	---	---	---
Soot %	%	2.3	---	---	---
Nitration (PA)	%	132	---	---	---
Sulfation (PA)	%	84	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	8	---	---	---
Sodium	ppm	2	---	---	---
Potassium	ppm	<1	---	---	---



Wear Metals

Iron	ppm	69	---	---	---
Copper	ppm	15	---	---	---
Lead	ppm	4	---	---	---
Tin	ppm	2	---	---	---
Aluminum	ppm	15	---	---	---
Chromium	ppm	4	---	---	---
Molybdenum	ppm	52	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



Additives

Calcium	ppm	1404	---	---	---
Magnesium	ppm	814	---	---	---
Zinc	ppm	1259	---	---	---
Phosphorus	ppm	1024	---	---	---
Barium	ppm	<1	---	---	---
Boron	ppm	5	---	---	---

Diagnosis

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Aluminum and iron ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated. Piston wear is indicated. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: LIESPR
Unique No: 5761576
Signed: Kevin Marson
Report Date: 15 Apr 2024



Graphs

