

LIEBHERR

CONSTRUCTION EQUIPMENT



[(370850)] LIEBHERR L526 048566-1558 - Diesel Engine

Sample No: LH
Oil Type: SAE 5W30



SAMPLE INFORMATION

Sample Number	LH	LH0250787	LH0213604	---
Sample Date	29 Nov 2023	08 Feb 2023	17 Nov 2021	---
Machine Hours	632	2005	1371	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Not Changd	---
Sample Status	SEVERE	SEVERE	ABNORMAL	---

CEDRE C. MEILLEUR
1 RANG 7
KIAMIKA, QC
CA J0W 1G0
Contact: Service Manager



OIL CONDITION

Visc @ 100°C	cSt	8	7.3	24.2	---
Oxidation (PA)	%	78	83	75	---

T:
F:



CONTAMINATION

Water	%	NEG	NEG	0.290	---
Soot %	%	0.1	0	0	---
Nitration (PA)	%	104	100	67	---
Sulfation (PA)	%	53	60	51	---
Glycol	%	NEG	NEG	0.0	---
Fuel	%	17.1	23	<1.0	---
Silicon	ppm	4	6	8	---
Sodium	ppm	4	4	5	---
Potassium	ppm	6	8	4	---

Diagnosis

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Metal levels are typical for a new component breaking in. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.



WEAR METALS

Iron	ppm	14	30	17	---
Copper	ppm	4	17	90	---
Lead	ppm	1	6	6	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	4	6	8	---
Chromium	ppm	<1	1	<1	---
Molybdenum	ppm	43	8	57	---
Nickel	ppm	<1	<1	1	---
Titanium	ppm	0	<1	0	---
Silver	ppm	<1	0	<1	---
Manganese	ppm	0	<1	3	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	717	1518	1325	---
Magnesium	ppm	821	90	925	---
Zinc	ppm	969	792	884	---
Phosphorus	ppm	819	758	797	---
Barium	ppm	<1	0	1	---
Boron	ppm	32	29	139	---

Depot: CEDKIA
Unique No: 5685518
Signed: Wes Davis
Report Date: 05 Dec 2023



GRAPHS

