

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH80M 155277-1218 - Diesel Engine

Sample No: LH0191255

Oil Type: LIEBHERR MOTOROIL 5W-30 LOW ASH



SAMPLE INFORMATION

Sample Number	LH0191255	LH0243741	---	---
Sample Date	11 Feb 2024	18 Jan 2024	---	---
Machine Hours	600	362	---	---
Oil Hours	238	221	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

NUCOR STEEL

2911 E NUCOR RD
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US 68702

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OIL CONDITION

Visc @ 100°C	cSt	12.1	12.2	---	---
Base Number (BN)	mg KOH/g	7.1	7.3	---	---
Oxidation (PA)	%	59	76	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0	---	---
Nitration (PA)	%	73	73	---	---
Sulfation (PA)	%	52	60	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	6	7	---	---
Sodium	ppm	2	4	---	---
Potassium	ppm	3	4	---	---

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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.



WEAR METALS

Iron	ppm	1	4	---	---
Copper	ppm	2	6	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	<1	2	---	---
Chromium	ppm	0	<1	---	---
Molybdenum	ppm	0	8	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	1161	1212	---	---
Magnesium	ppm	685	731	---	---
Zinc	ppm	763	804	---	---
Phosphorus	ppm	690	744	---	---
Barium	ppm	0	0	---	---
Boron	ppm	87	108	---	---

Depot: NUCNOR
Unique No: 10888922
Signed: Wes Davis
Report Date: 22 Feb 2024



GRAPHS

