

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH80M 1218-157090 - Front Left Wheel Hub

Sample No: LH0282887

Oil Type: GEAR OIL SAE 80W90



KINDER MORGAN

4301 IVERSON

TRINITY, AL

US 35601

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Sample Information

Sample Number	LH0282887	LH0282898	---	---
Sample Date	19 Apr 2024	19 Mar 2024	---	---
Machine Hours	997	545	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---



Oil Condition

Visc @ 40°C	cSt	● 155	● 161	---	---
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Contamination

Water	%	NEG	NEG	---	---
Silicon	ppm	● 18	● 26	---	---
Sodium	ppm	● 10	● 8	---	---
Potassium	ppm	● 0	● <1	---	---



Wear Metals

Iron	ppm	● 194	● 113	---	---
Copper	ppm	● 6	● 6	---	---
Lead	ppm	● 0	● 0	---	---
Tin	ppm	● 0	● 1	---	---
Aluminum	ppm	● <1	● 3	---	---
Chromium	ppm	● <1	● <1	---	---
Molybdenum	ppm	● 0	● <1	---	---
Nickel	ppm	● 0	● <1	---	---
Titanium	ppm	● 0	● <1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	● 2	● 2	---	---
Vanadium	ppm	0	<1	---	---



Additives

Calcium	ppm	● 249	● 68	---	---
Magnesium	ppm	● 0	● 0	---	---
Zinc	ppm	● 113	● 21	---	---
Phosphorus	ppm	● 1147	● 1249	---	---
Barium	ppm	● 0	● 0	---	---
Boron	ppm	● 5	● <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.

Depot: KINTRI

Unique No: 11076864

Signed: Wes Davis

Report Date: 15 Jun 2024



Graphs

