

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH80M 1218-157090 - Diesel Engine

Sample No: LH0280580
 Oil Type: DIESEL ENGINE OIL SAE 15W40



KINDER MORGAN
 4301 IVERSON
 TRINITY, AL
 US 35601
 Contact: RICKY JOHNSON
 ricky_johnson@kindermorgan.com
 T:
 F: (256)355-5250



SAMPLE INFORMATION

Sample Number	LH0280580	---	---	---
Sample Date	28 Feb 2024	---	---	---
Machine Hours	231	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---



OIL CONDITION

Visc @ 100°C	cSt	12.1	---	---	---
Base Number (BN)	mg KOH/g	6.1	---	---	---
Oxidation (PA)	%	197	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	0.1	---	---	---
Nitration (PA)	%	86	---	---	---
Sulfation (PA)	%	107	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	1.0	---	---	---
Silicon	ppm	8	---	---	---
Sodium	ppm	<1	---	---	---
Potassium	ppm	<1	---	---	---



WEAR METALS

Iron	ppm	6	---	---	---
Copper	ppm	32	---	---	---
Lead	ppm	2	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	2	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	50	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	1433	---	---	---
Magnesium	ppm	948	---	---	---
Zinc	ppm	941	---	---	---
Phosphorus	ppm	827	---	---	---
Barium	ppm	22	---	---	---
Boron	ppm	116	---	---	---

Diagnosis

No corrective action is recommended at this time. Metal levels are typical for a new component breaking in. Fuel content negligible. 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 acceptable for the time in service.

Depot: KINTRI
 Unique No: 10937194
 Signed: Sean Felton
 Report Date: 22 Mar 2024



GRAPHS

