

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH40M 137 053-1215 - Diesel Engine

Sample No: LHMC99393

Oil Type: LIEBHERR MOTOROIL 5W30



#### SAMPLE INFORMATION

Sample Number	LHMC99393	LHMC99436	---	---
Sample Date	07 Jun 2023	11 Apr 2023	---	---
Machine Hours	1583	1079	---	---
Oil Hours	504	497	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

#### RECO EQUIPMENT INC.

20620 ROUTE 19 NORTH  
CRANBERRY TOWNSHIP, PA  
US 16066  
Contact: RICK STARINCHAK  
RAS@RECOEQUIP.COM  
T: (724)779-4646  
F: (724)779-4611



#### OIL CONDITION

Visc @ 100°C	cSt	11.6	11.6	---	---
Base Number (BN)	mg KOH/g	15.3	12.2	---	---
Oxidation (PA)	%	50	63	---	---



#### CONTAMINATION

Soot %	%	0.1	0.1	---	---
Nitration (PA)	%	96	98	---	---
Sulfation (PA)	%	44	47	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	6	7	---	---
Sodium	ppm	1	3	---	---
Potassium	ppm	0	2	---	---

#### 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 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	5	8	---	---
Copper	ppm	6	62	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	0	<1	---	---
Aluminum	ppm	0	3	---	---
Chromium	ppm	0	<1	---	---
Molybdenum	ppm	<1	8	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	0	1	---	---
Vanadium	ppm	0	0	---	---



#### ADDITIVES

Calcium	ppm	3502	4022	---	---
Magnesium	ppm	33	145	---	---
Zinc	ppm	977	1204	---	---
Phosphorus	ppm	788	1043	---	---
Barium	ppm	0	2	---	---
Boron	ppm	227	288	---	---

Depot: LEC0070  
Unique No: 10540006  
Signed: Wes Davis  
Report Date: 05 Jul 2023



### GRAPHS

