

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(339789)] LIEBHERR LH60M 123519-1217 - Diesel Engine

Sample No: LH0188490

Oil Type: LIEBHERR MOTOROIL 5W30



**KIMCO STEEL SALES LTD.**  
 1325 JOHN COUNTER BLVD  
 KINGSTON, ON  
 CA K7L 4W1  
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 F: (613)548-4653



#### SAMPLE INFORMATION

Sample Number	LH0188490	---	---	---
Sample Date	18 Mar 2021	---	---	---
Machine Hours	608	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---



#### OIL CONDITION

Visc @ 100°C	cSt	11.9	---	---	---
Oxidation (PA)	%	198	---	---	---



#### CONTAMINATION

Soot %	%	0	---	---	---
Nitration (PA)	%	97	---	---	---
Sulfation (PA)	%	107	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	9	---	---	---
Sodium	ppm	5	---	---	---
Potassium	ppm	3	---	---	---



#### WEAR METALS

Iron	ppm	15	---	---	---
Copper	ppm	69	---	---	---
Lead	ppm	4	---	---	---
Tin	ppm	1	---	---	---
Aluminum	ppm	2	---	---	---
Chromium	ppm	1	---	---	---
Molybdenum	ppm	47	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	1	---	---	---
Vanadium	ppm	0	---	---	---



#### ADDITIVES

Calcium	ppm	1369	---	---	---
Magnesium	ppm	837	---	---	---
Zinc	ppm	844	---	---	---
Phosphorus	ppm	646	---	---	---
Barium	ppm	31	---	---	---
Boron	ppm	88	---	---	---

#### Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. 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. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

**Depot:** KIMKIN  
**Unique No:** 5199368  
**Signed:** Kevin Marson  
**Report Date:** 29 Mar 2021



### GRAPHS

