# **CONSTRUCTION EQUIPMENT**

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

Sample No: LH0188490

Oil Type: LIEBHERR MOTOROIL 5W30

# SAMPLE INFORMATION

LH0188490

18 Mar 2021 608

Changed NORMAL

198

0

Sample Number	
Sample Date	
Machine Hours	
Oil Hours	
Oil Changed	
Sample Status	

	OIL CONDITION				
@	100°C	cSt	0 11.9		

%

Oxidation (PA)

Visc

Soot %	%	0				
Nitration (PA)	%	97				
Sulfation (PA)	%	107				
Glycol	%	NEG				
Fuel	%	<1.0				
Silicon	ppm	0 9				
Sodium	ppm	05				
Potassium	ppm	03				

## WEAR METALS

Iron	ppm	0 15	 	
Copper	ppm	<b>6</b> 9	 	
Lead	ppm	04	 	
Tin	ppm	01	 	
Aluminum	ppm	02	 	
Chromium	ppm	01	 	
Molybdenum	ppm	47	 	
Nickel	ppm	<b>○</b> <1	 	
Titanium	ppm	<1	 	
Silver	ppm	0	 	
Manganese	ppm	01	 	
Vanadium	ppm	0	 	

# ADDITIVES

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



KIMCO STEEL SALES LTD.

1325 JOHN COUNTER BLVD KINGSTON, ON CA K7L 4W1 Contact: David Roy doug@kimcosteel.com T: (800)267-0902 F: (613)548-4653

### 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.

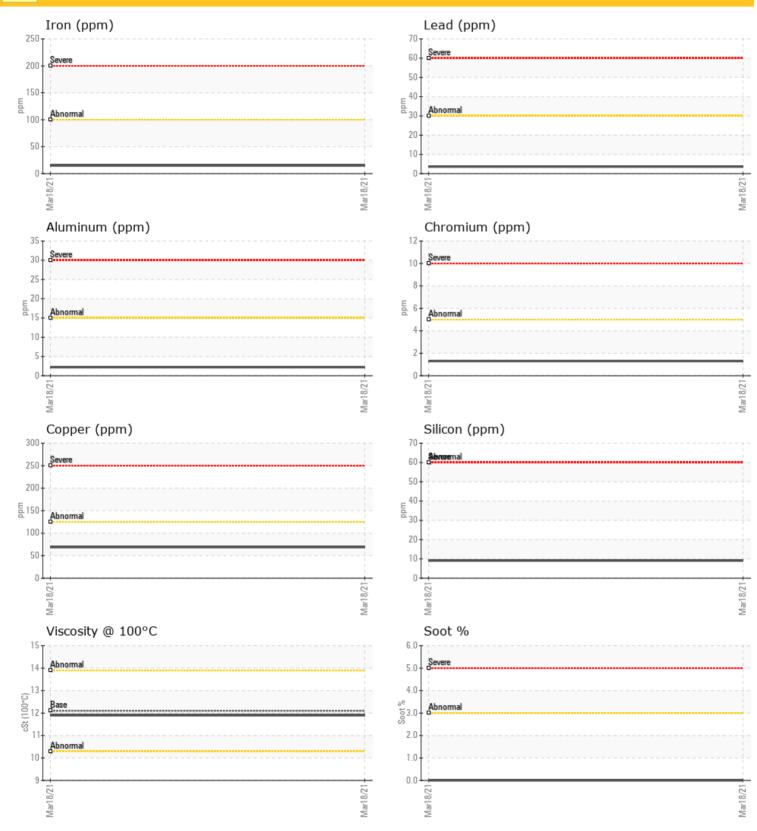
Depot: Unique No: Signed: Report Date: KIMKIN 5199368 Kevin Marson 29 Mar 2021





GRAPHS

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