Oil Type: LIEBHERR GEAR BASIC 90 LS





## **UNITED STATES GYPSUM**

301 RILEY RD EAST CHICAGO, IN US 43612

Contact: Service Manager

T: F:

SAMPLE INFORMATION					
Sample Number	LHMC123414	LHMC123367	LHMC96896	LHMC73540	
Sample Date	09 Jan 2020	09 Jan 2020	26 Apr 2018	16 May 2016	
Machine Hours	3409	3409	2587	986	
Oil Hours	0	0	0	0	
Oil Changed	Changed	Not Changd	Not Changd	Changed	
Sample Status	NORMAL	ATTENTION	NORMAL	NORMAL	

## **OIL CONDITION**

Visc @ 40°C **126** 

33.0	

## Diagnosis

Resample at the next service interval to monitor. NOTE: one of two samples received with same ID and sampling date.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.

CONTAMINATION					
Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>0</b>	O <1	O <1	O <1
Sodium	ppm	<b>0</b> <1	O <1	O <1	O <1
Potassium	ppm	<b>0</b>	O 0	<b>5</b>	<b>3</b>

# **WEAR METALS**

Iron	ppm	<b>17</b>	O 2	<b>9</b>	0 1
Copper	ppm	<b>7</b>	O 2	<b>3</b>	O 2
Lead	ppm	<b>0</b>	0	O	0
Tin	ppm	<b>0</b>	0	O	0
Aluminum	ppm	<b>0</b>	0	O 0	0
Chromium	ppm	<b>0</b> <1	O <1	O <1	O <1
Molybdenum	ppm	<b>()</b> <1	O <1	O	O <1
Nickel	ppm	<1	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<b>()</b> <1	O <1	O <1	O <1
Vanadium	ppm	0	0	0	0

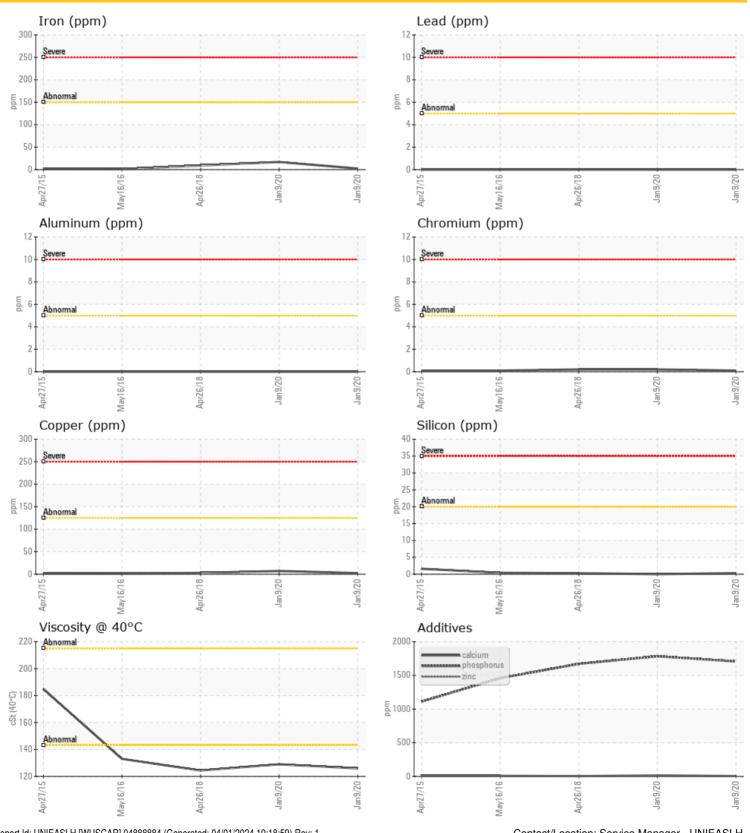
Manganese	ppiii	<b>○</b> < 1	0 < 1	0 < 1	0 < 1
Vanadium	ppm	0	0	0	0
ADDI	TIVES				
Calcium	ppm	<b>5</b>	O 14	<b>4</b>	0 8
Magnesium	ppm	<b>0</b>	O 0	O	0
Zinc	ppm	<b>3</b>	<b>5</b>	<b>3</b>	O 5
Phosphorus	ppm	<b>1707</b>	O 1784	O 1671	O 1459
Barium	ppm	<b>()</b> <1	O <1	O <1	<b>24</b>
Boron	ppm	<b>216</b>	O 228	<b>197</b>	O 262

Depot: UNIEASLH Unique No: 8883927 Signed: Don Baldridge Report Date: 16 Jan 2020





### **GRAPHS**



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Contact/Location: Service Manager - UNIEASLH