CONSTRUCTION EQUIPMENT

054454-194 - Swing Drive

Sample No: LHMC123416

Oil Type: LIEBHERR GEAR BASIC 90 LS

SAMPLE INFORMATION

LHMC123416

09 Jan 2020

Changed

SEVERE

3409





UNITED STATES GYPSUM

301 RILEY RD EAST CHICAGO, IN US 43612

Contact: Service Manager

F:

LHMC73041

16 May 2016

986

N/A

NORMAL

0

Oil Hours
Oil Changed
Sample Statu
A

Sample Number

Sample Date

Machine Hours

Status

OIL CONDITION

Visc @ 40°C 222 148.5 130.4

LHMC96955

26 Apr 2018

Changed

ABNORMAL

2587

0

LHMC72744

08 Feb 2017

Not Changd

ABNORMAL

1682

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Ш	CONT	AMINATIO	NC
M/		0/	0

Water	%	0.404	0.329	0.824	0.140
Silicon	ppm	0	O 5	7	O 2
Sodium	ppm	2	O 1	O 1	3
Potassium	mag	0<1	O 10	O 10	0.6

Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Bearing and/or bushing wear is indicated. There is a moderate concentration of water present in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	2882	O 1858	O 1309	409
Copper	ppm	710	○ 361	O 118	O 52
Lead	ppm	○ <1	O 0	O 0	O <1
Tin	ppm	8	O 0	O 0	6
Aluminum	ppm	 <1	O <1	4	O <1
Chromium	ppm	36	<u>0</u> 21	O 15	4
Molybdenum	ppm	0	0	O 0	0
Nickel	ppm	11	O 7	4	O 1
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	<1	0
Manganese	ppm	18	8	0 8	3
Vanadium	ppm	<1	<1	<1	0

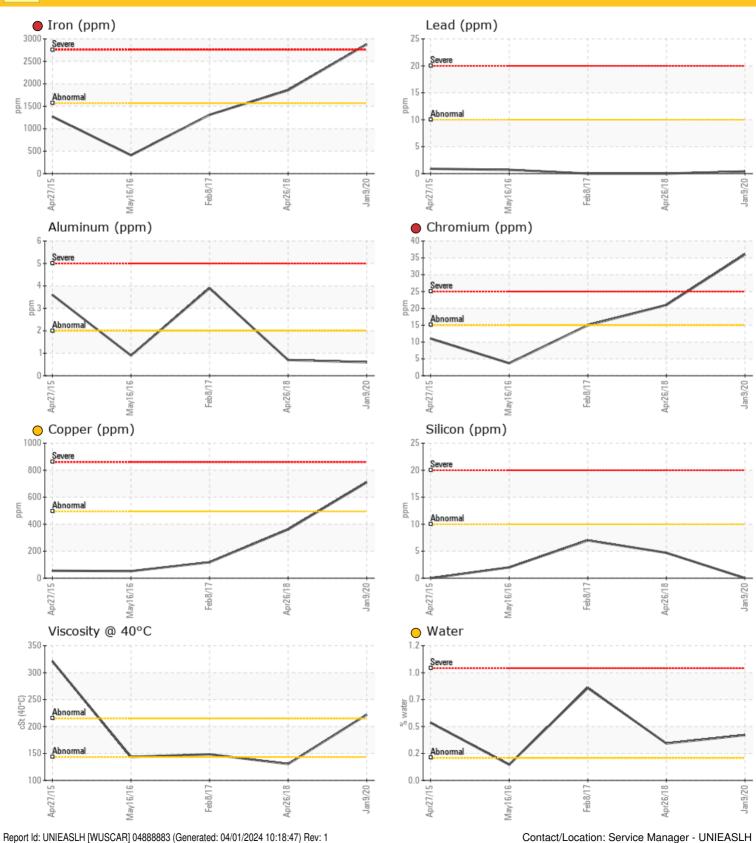
Calcium	ppm	19	10	O 22	O 12
Magnesium	ppm	() <1	0	O <1	O <1
Zinc	ppm	29	27	30	O 16
Phosphorus	ppm	1778	1443	O 1817	O 1862
Barium	ppm	0	0	O 0	O <1
Boron	ppm	84	123	195	O 202

Depot: UNIEASLH Unique No: 8883926 Don Baldridge Signed: **Report Date:** 16 Jan 2020





GRAPHS



Contact/Location: Service Manager - UNIEASLH