# **CONSTRUCTION EQUIPMENT**

# 054454-194 - Hydraulic System

LHMC130519 Sample No:

Oil Type: TDH FLUID SAE 70W80





#### **UNITED STATES GYPSUM**

301 RILEY RD EAST CHICAGO, IN US 43612

Contact: Service Manager

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## F:

### Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

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U	SAMP	PLE INFORMATION				
Sample	Number		LHMC130519			

Sample Number	LHMC130519	LHMC96953	LHMC72745	LHMC73531
Sample Date	09 Jan 2020	26 Apr 2018	08 Feb 2017	16 May 2016
Machine Hours	3409	2587	1682	986
Oil Hours	3409	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

## **OIL CONDITION**

Visc @ 40°C	cSt	<b>38.6</b>	36.39	36.73	38.99
Acid Number (AN)	mg KOH/g	<b>1.139</b>	1.146	<b>1.93</b>	0.835



## ONTAMINATION

Water	%	NEG	NEG	NEG	NEG	
Particles 5-15µm	count			36225		
Particles 15-25µm	count			3007		
Particles 25-50µm	count			1298		
Particles 50-100µm	count			33		
Particles >100μm	count			0		
NAS Code				8		
Particles >4µm		<b>11036</b>	8347	3622	O 5472	
Particles >6µm		<b>1976</b>	<b>1031</b>	<b>420</b>	939	
Particles >14µm		<b>80</b>	<b>5</b> 5	<b>44</b>	<b>106</b>	
ISO 4406:1999 (c)		21/18/13	20/17/13	19/16/13	20/17/14	
Silicon	ppm	<b>3</b>	<b>3</b>	<b>4</b>	O 2	
Sodium	ppm	<b>4</b>	<b>4</b>	<b>4</b>	<b>5</b>	
Potassium	ppm	<b>()</b> <1	0 1	0 2	02	



#### WEAR METALS

Iron	ppm	<b>9</b>	<b>6</b>	<b>5</b>	<b>6</b>	
Copper	ppm	<b>16</b>	O 15	<b>7</b>	<b>9</b>	
Lead	ppm	<b>2</b>	O 2	<1	<1	
Tin	ppm	<b></b> <1	O 0	O	0	
Aluminum	ppm	<b></b> <1	O <1	<1	<1	
Chromium	ppm	<b></b> <1	O <1	<1	O <1	
Molybdenum	ppm	<b></b> <1	<1	<1	0	
Nickel	ppm	<1	0	<1	0	
Titanium	ppm	0	0	0	0	
Silver	ppm	0	0	0	0	
Manganese	ppm	<b></b> <1	<1	<1	<1	
Vanadium	ppm	0	0	0	0	



- ADL	JIII V ES						
Calcium	ppm	<b>2027</b>	2468	2437	1257	Depot:	UNIEASLH
Magnesium	ppm	<b>8</b>	7	12	7	Unique No:	8883193
Zinc	ppm	<b>899</b>	1033	989	696	Signed:	Doug Bogart
Phosphorus	ppm	<b>782</b>	846	910	558	Report Date:	16 Jan 2020
Barium	ppm	<b>0</b>	0:17:11\ Pov: 1	<1	0 Contact/	Location: Consid	e Manager - UNIEASLH
Boron	nnm	02	3 10.17.11) nev. 1	2	<1 Contact/	Location. Servic	e Manager - UNIEASLH

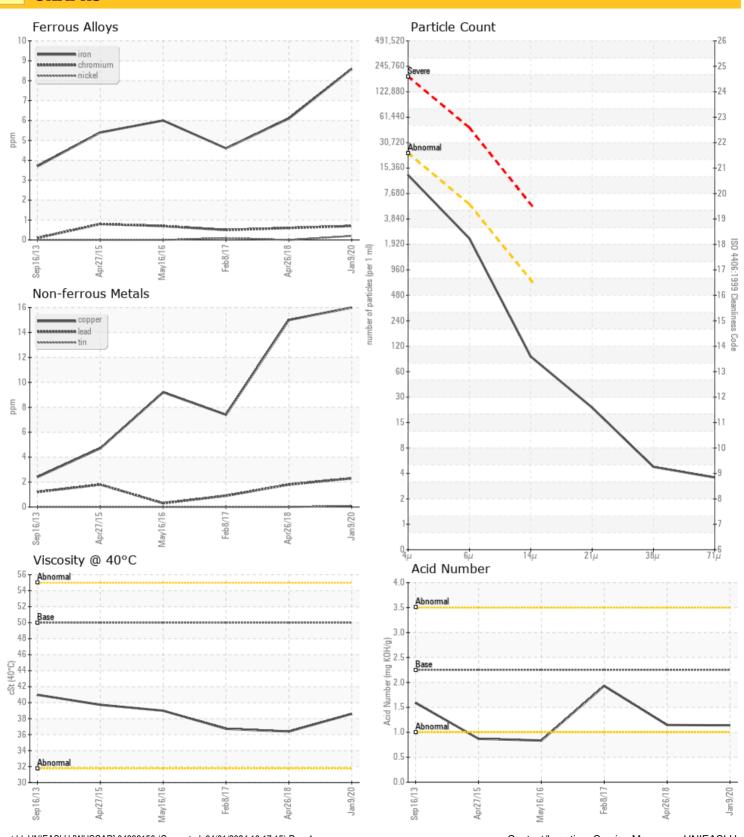
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**CONSTRUCTION EQUIPMENT** 





#### **GRAPHS**



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Contact/Location: Service Manager - UNIEASLH