

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR PR756 1312-17193 - Hydraulic System

Sample No: LH0243295

Oil Type: CITGO AW HYDRAULIC ISO 46



**CITY OF RIVERVIEW**  
20863 GRANGE ROAD  
RIVERVIEW, MI  
US 48193  
Contact: Service Manager



#### SAMPLE INFORMATION

Sample Number	LH0243295	LHMC131847	LHMC122603	LHMC140840
Sample Date	07 Jul 2023	07 Oct 2021	11 Jun 2021	01 Feb 2021
Machine Hours	9943	7024	6490	6009
Oil Hours	983	57	481	261
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	45.6	45.4	47.0	44.9
Acid Number (AN)	mg KOH/g	0.71	0.787	0.761	0.719

T:  
F:



#### CONTAMINATION

Particles >4µm	983	995	11306	516	
Particles >6µm	207	235	2062	110	
Particles >14µm	19	24	123	10	
ISO 4406:1999 (c)	17/15/11	17/15/12	21/18/14	16/14/10	
Silicon	ppm	1	2	<1	0
Sodium	ppm	<1	0	2	2
Potassium	ppm	0	<1	<1	<1

#### 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.



#### WEAR METALS

Iron	ppm	5	2	4	3
Copper	ppm	6	3	4	4
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	<1	0	0
Aluminum	ppm	<1	0	0	0
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	<1	1	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	<1	<1	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	0	0	0



#### ADDITIVES

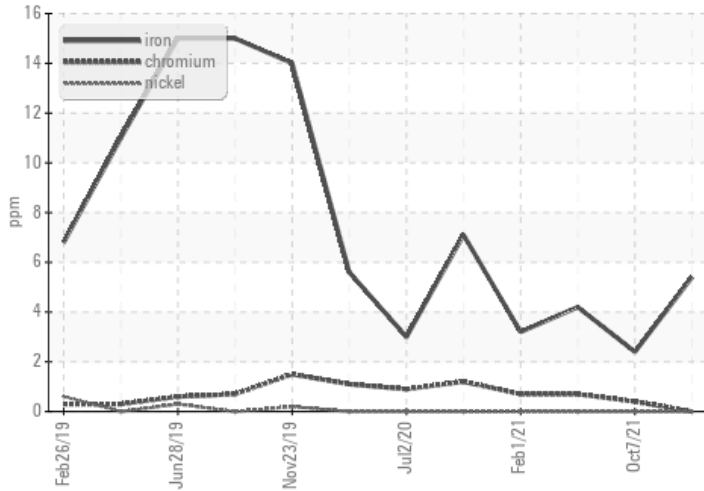
Calcium	ppm	224	458	799	546
Magnesium	ppm	6	14	7	7
Zinc	ppm	627	676	532	478
Phosphorus	ppm	514	549	465	414
Barium	ppm	0	0	0	0
Boron	ppm	2	4	3	2

Depot: CITRIVMI  
Unique No: 10551904  
Signed: Wes Davis  
Report Date: 13 Jul 2023

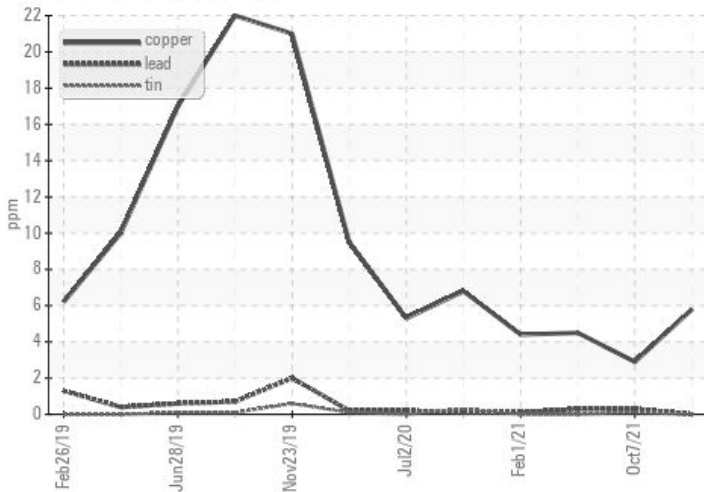


### GRAPHS

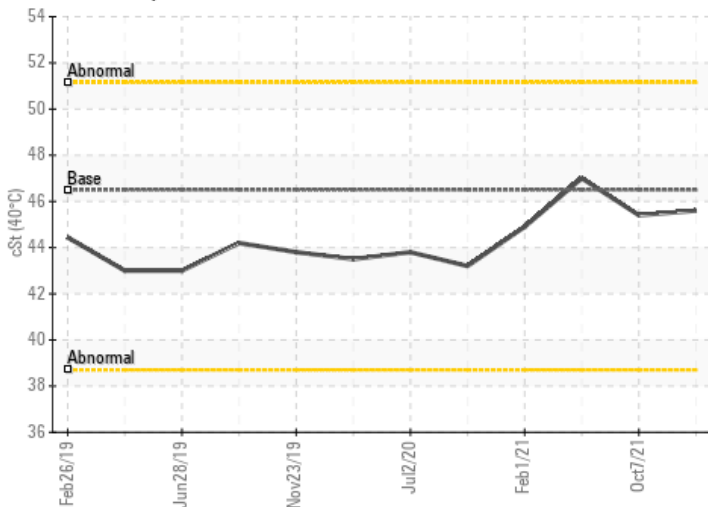
#### Ferrous Alloys



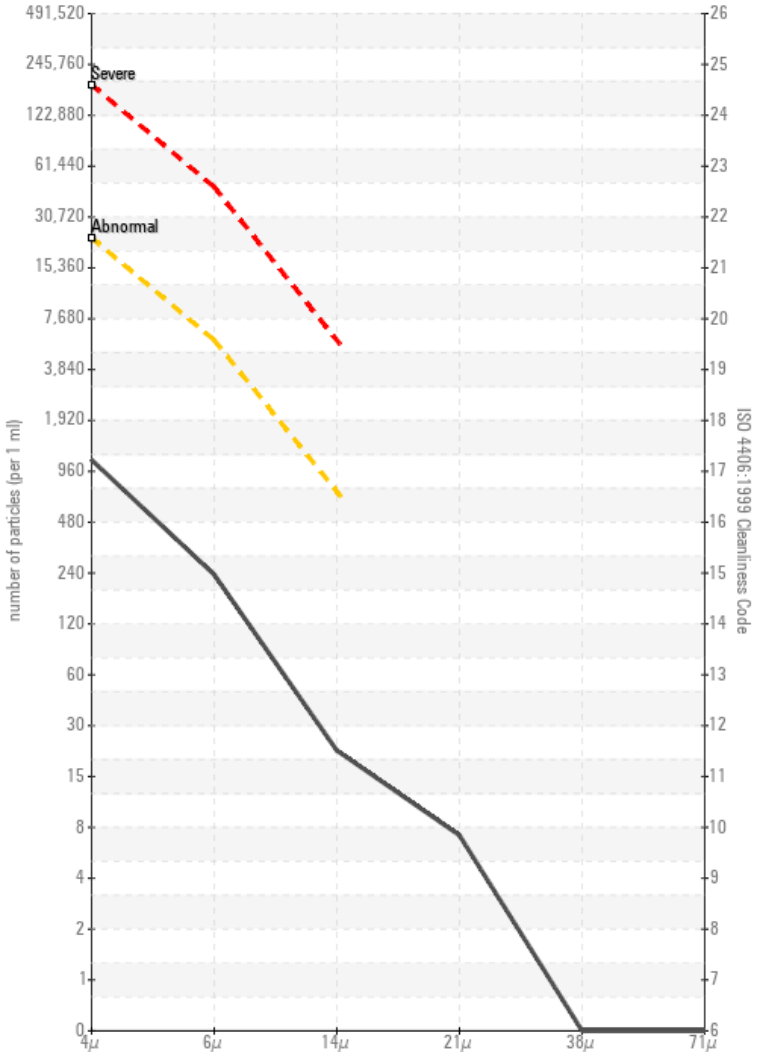
#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count



#### Acid Number

