

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH80M 1218-157090 - Hydraulic System

Sample No: LH0267279

Oil Type: TDH



Sample Information

Sample Number	LH0267279	LH0282873	LH0282884	LH0282895
Sample Date	10 Jun 2024	18 May 2024	19 Apr 2024	19 Mar 2024
Machine Hours	2008	1559	997	545
Oil Hours	2008	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

KINDER MORGAN

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TRINITY, AL

US 35601

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Oil Condition

Visc @ 40°C	cSt	39.5	41.5	43.2	45.1
Acid Number (AN)	mg KOH/g	1.24	1.12	1.17	1.29



Contamination

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		3291	1469	5272	4161
Particles >6µm		958	172	732	643
Particles >14µm		48	8	33	26
ISO 4406:1999 (c)		19/17/13	18/15/10	20/17/12	19/17/12
Silicon	ppm	6	5	5	4
Sodium	ppm	3	<1	2	1
Potassium	ppm	4	<1	1	0



Wear Metals

Iron	ppm	2	4	9	9
Copper	ppm	<1	<1	3	1
Lead	ppm	<1	0	0	0
Tin	ppm	0	0	<1	0
Aluminum	ppm	<1	0	<1	<1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	3	3	2	1
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	0
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	2079	1840	1598	1564
Magnesium	ppm	35	29	20	6
Zinc	ppm	939	838	765	749
Phosphorus	ppm	805	737	702	661
Barium	ppm	0	0	0	0
Boron	ppm	9	8	3	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.

Depot: KINTRI

Unique No: 11088618

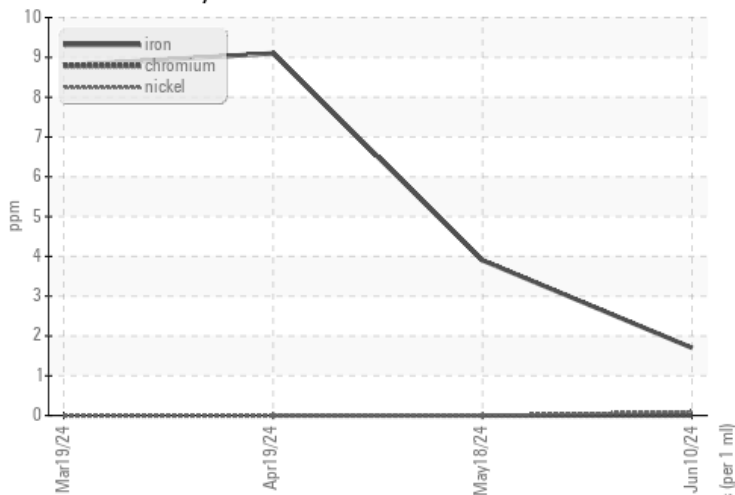
Signed: Wes Davis

Report Date: 21 Jun 2024

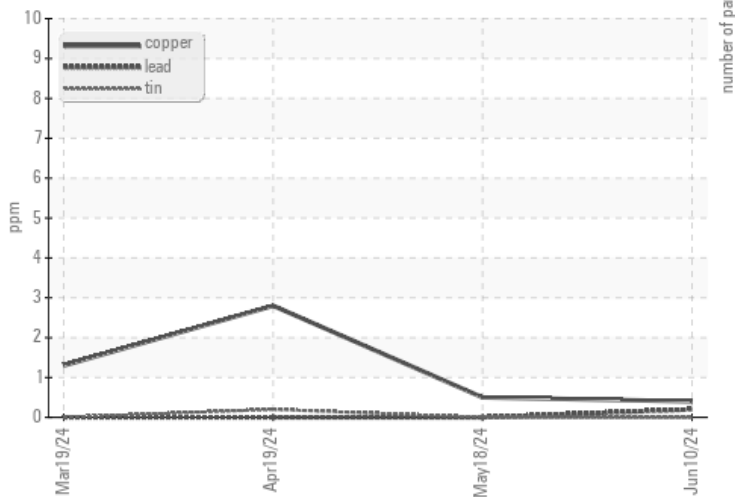


Graphs

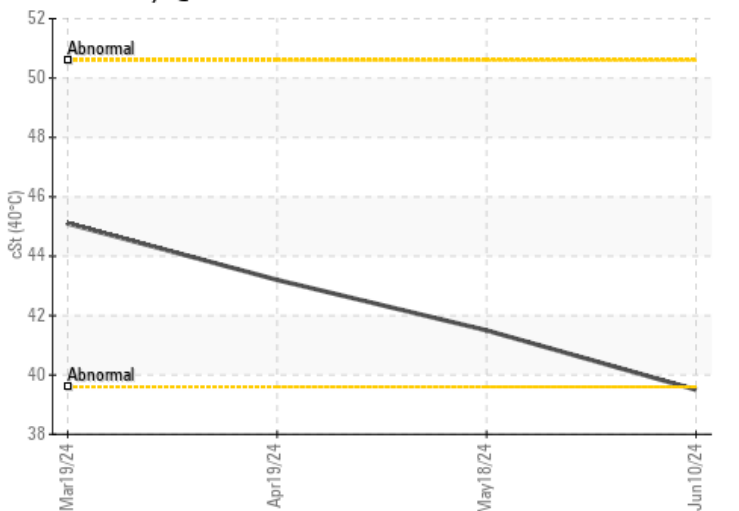
Ferrous Alloys



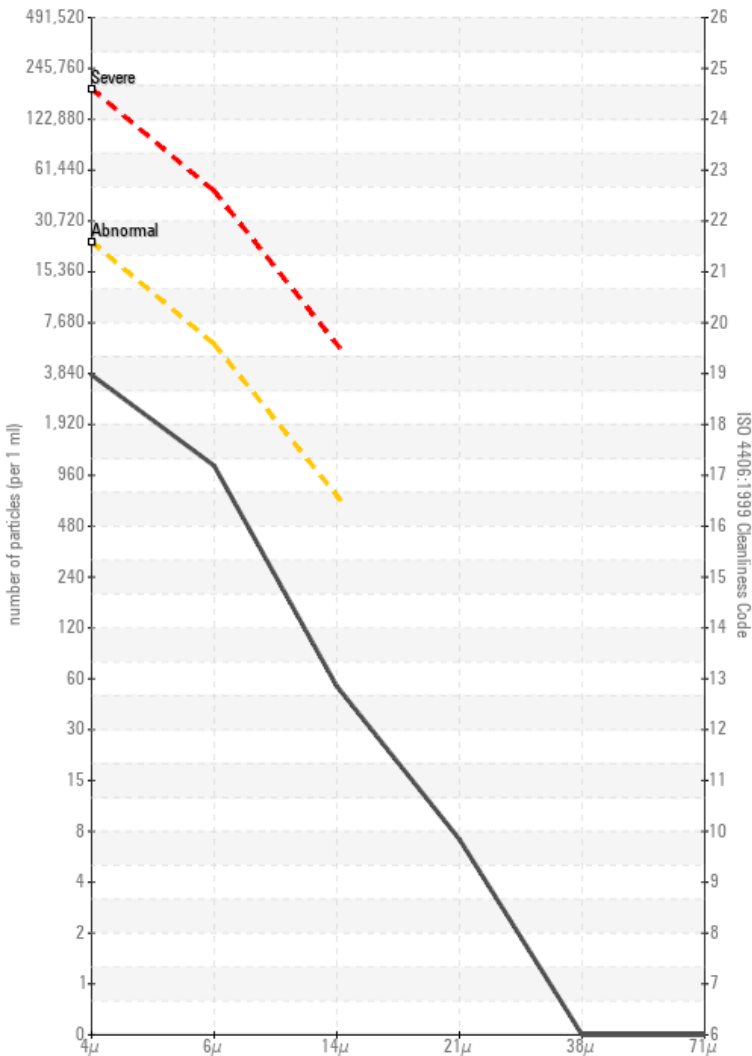
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

