

LIEBHERR

CONSTRUCTION EQUIPMENT



[(354194)] LIEBHERR LH40C132159-1527 - Hydraulic System

Sample No: LH0209417
 Oil Type: 49 NORTH ISO 32



SAMPLE INFORMATION

Sample Number	LH0209417	LH	LH	LH0209408
Sample Date	19 Jul 2023	25 Apr 2023	27 Jan 2023	12 Jul 2022
Machine Hours	3200	3500	2200	2000
Oil Hours	0	0	0	0
Oil Changed	Not Changd	N/A	N/A	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

National Salvage Ltd.
 206-33 Street N
 Lethbridge, AB
 CA T1H 3Z5
 Contact: Service Manager



OIL CONDITION

Visc @ 40°C	cSt	30.8	30.5	31.0	31.8
Acid Number (AN)	mg KOH/g	0.95	---	---	1.06

T:
F:



CONTAMINATION

Particles >4µm		1038	1501	1469	1723
Particles >6µm		356	584	571	453
Particles >14µm		41	68	83	32
ISO 4406:1999 (c)		17/16/13	18/16/13	18/16/14	18/16/12
Silicon	ppm	2	2	2	2
Sodium	ppm	<1	<1	<1	<1
Potassium	ppm	<1	0	0	0

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	33	30	28	19
Copper	ppm	3	2	2	2
Lead	ppm	0	<1	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	<1	<1	0	<1
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

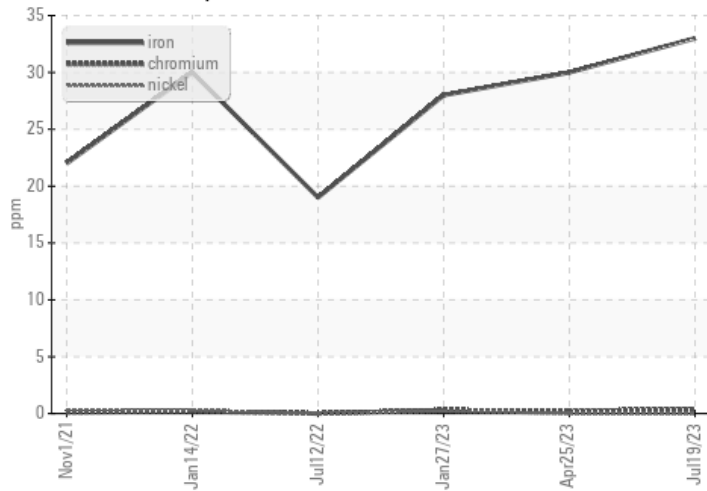
Calcium	ppm	553	581	588	567
Magnesium	ppm	4	4	4	3
Zinc	ppm	535	527	531	524
Phosphorus	ppm	474	478	488	453
Barium	ppm	0	0	0	0
Boron	ppm	<1	<1	<1	<1

Depot: NATLET
 Unique No: 5616509
 Signed: Wes Davis
 Report Date: 24 Jul 2023

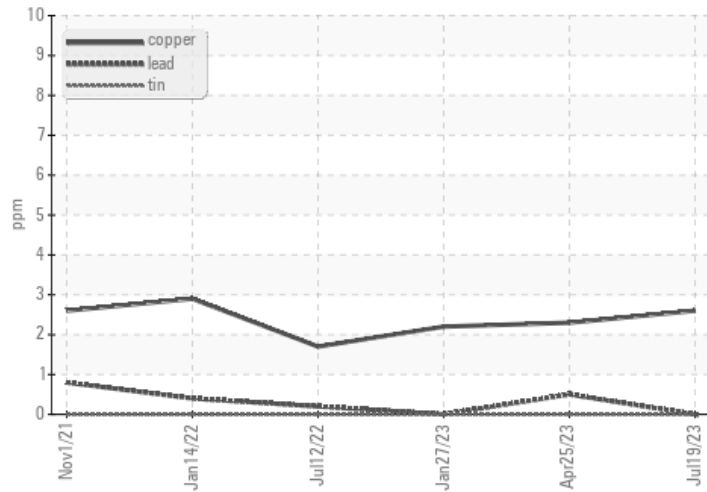


GRAPHS

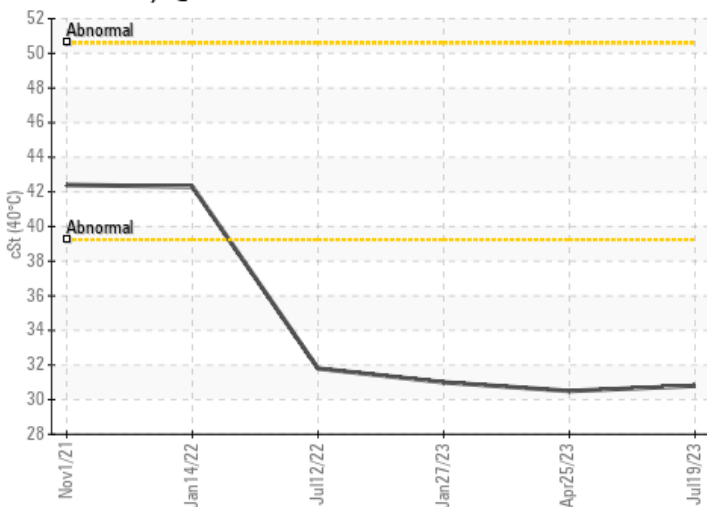
Ferrous Alloys



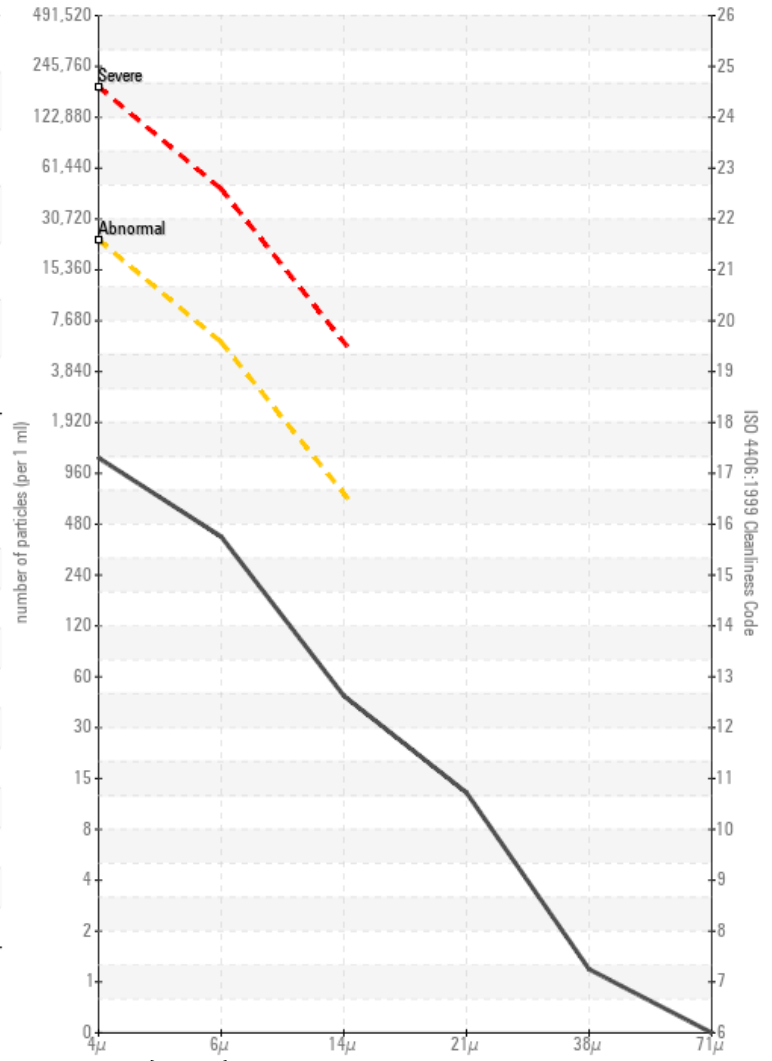
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

