

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 1253-126191 - Hydraulic System

Sample No: LH0258299

Oil Type: PETRO CANADA ENVIRON MV 46



SAMPLE INFORMATION

Sample Number	LH0258299	LH0208507	---	---
Sample Date	10 Aug 2023	28 Dec 2021	---	---
Machine Hours	3826	1115	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	NORMAL	ATTENTION	---	---

TRAM CONSTRUCTION

9279 E KY 8
GARRISON, KY
US 41141
Contact: Service Manager



OIL CONDITION

Visc @ 40°C	cSt	● 42.5	● 44.9	---	---
Acid Number (AN)	mg KOH/g	● 1.01	● 1.068	---	---

T:
F:



CONTAMINATION

Particles >4µm		● 7903	● 32192	---	---
Particles >6µm		● 3216	● 5999	---	---
Particles >14µm		● 540	● 304	---	---
ISO 4406:1999 (c)		20/19/16	22/20/15	---	---
Silicon	ppm	● 2	● 2	---	---
Sodium	ppm	● 39	● 1	---	---
Potassium	ppm	● 6	● 0	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	● 7	● 40	---	---
Copper	ppm	● <1	● 4	---	---
Lead	ppm	● 0	● <1	---	---
Tin	ppm	● 0	● 0	---	---
Aluminum	ppm	● <1	● <1	---	---
Chromium	ppm	● <1	● <1	---	---
Molybdenum	ppm	● 0	<1	---	---
Nickel	ppm	● 0	● 0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	● 0	<1	---	---
Vanadium	ppm	1	0	---	---



ADDITIVES

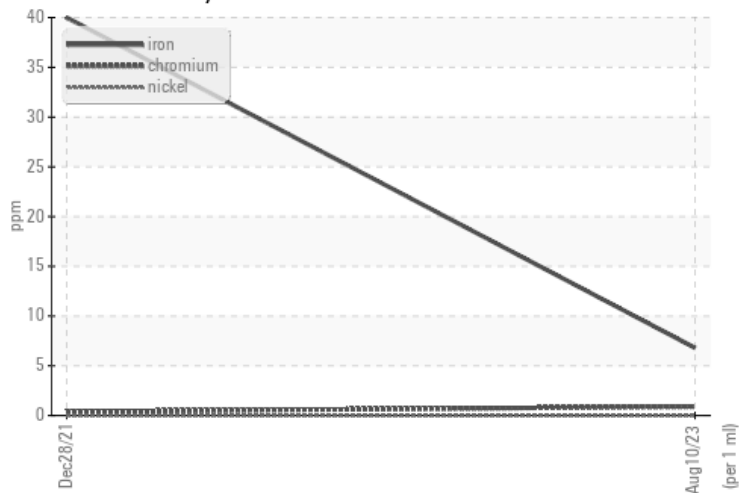
Calcium	ppm	● 100	1345	---	---
Magnesium	ppm	● 0	10	---	---
Zinc	ppm	● 47	680	---	---
Phosphorus	ppm	● 29	560	---	---
Barium	ppm	● 0	0	---	---
Boron	ppm	● 0	5	---	---

Depot: TRAGARLH
Unique No: 10615571
Signed: Jonathan Hester
Report Date: 23 Aug 2023

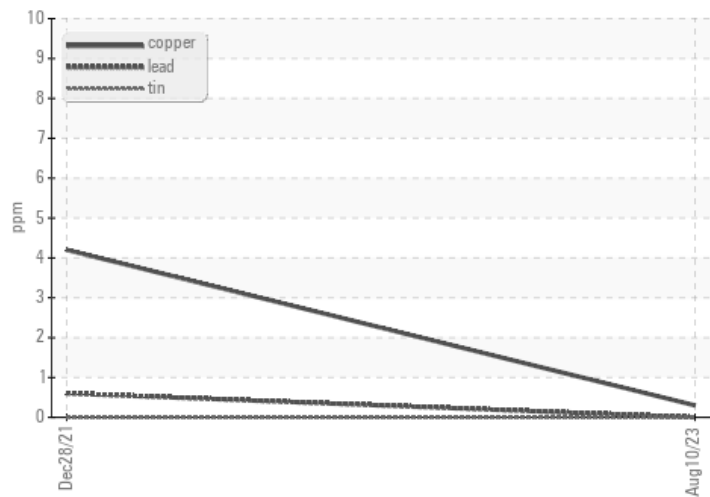


GRAPHS

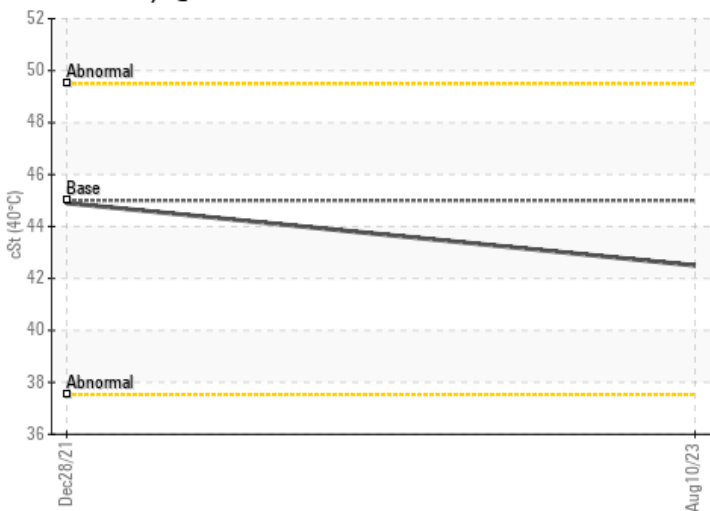
Ferrous Alloys



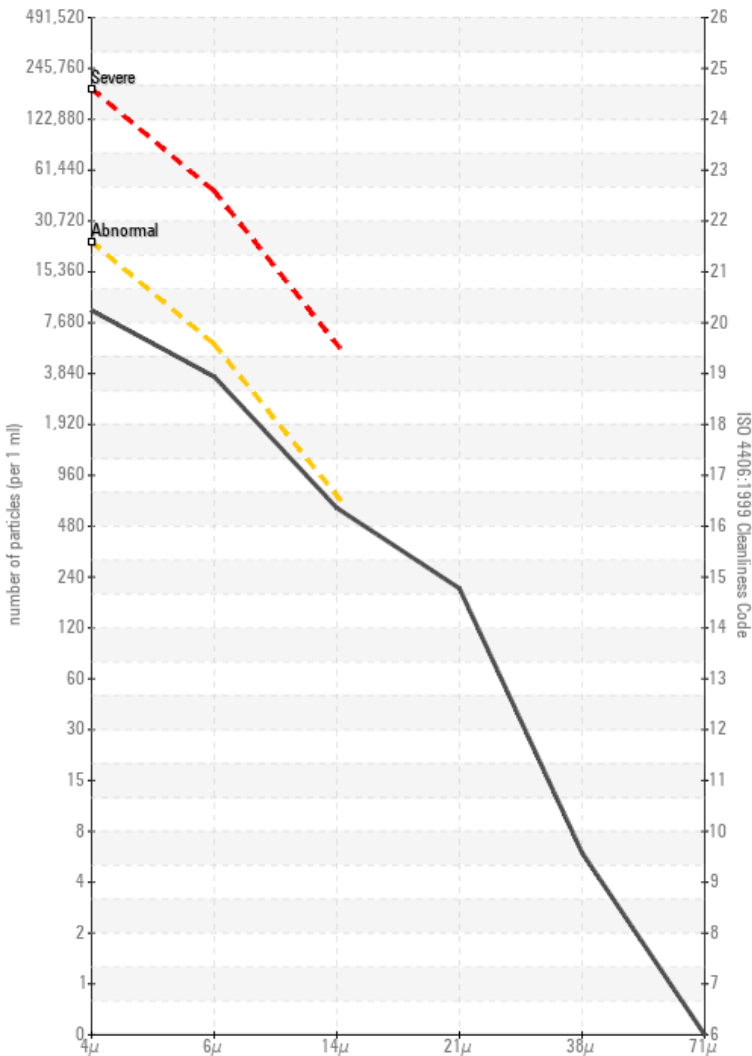
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

