LIEBHERR
CONSTRUCTION EQUIPMENT

[[M. GERVICH AND SONS]] LIEBHERR A934CHD 032017-1007 - Hydraul

Sample No: LH0254702

Oil Type: NOT GIVEN

INTERSTATE POWER SYSTEMS
407 ADVENTURLAND DR NE
ALTOONA, IA
US 50009
Contact: DALTON JOHNSON
dalton.johnson@istate.com
T: (515)957-3300
F:

SAMPLE INFORMATION

Sample Number		**LH0254702**	---	---	---
Sample Date		**05 Jul 2023**	---	---	---
Machine Hours		**14319**	---	---	---
Oil Hours		**0**	---	---	---
Oil Changed		**Not Changd**	---	---	---
Sample Status		**NORMAL**	---	---	---

OIL CONDITION

Visc @ 40°C	cSt	**45.1**	---	---	---
Acid Number (AN)	mg KOH/g	**0.16**	---	---	---

CONTAMINATION

Particles >4µm		**13045**	---	---	---
Particles >6µm		**4680**	---	---	---
Particles >14µm		**432**	---	---	---
ISO 4406:1999 (c)		**21/19/16**	---	---	---
Silicon	ppm	**1**	---	---	---
Sodium	ppm	**<1**	---	---	---
Potassium	ppm	**0**	---	---	---

WEAR METALS

Iron	ppm	**6**	---	---	---
Copper	ppm	**<1**	---	---	---
Lead	ppm	**0**	---	---	---
Tin	ppm	**0**	---	---	---
Aluminum	ppm	**1**	---	---	---
Chromium	ppm	**2**	---	---	---
Molybdenum	ppm	**0**	---	---	---
Nickel	ppm	**0**	---	---	---
Titanium	ppm	**0**	---	---	---
Silver	ppm	**0**	---	---	---
Manganese	ppm	**<1**	---	---	---
Vanadium	ppm	**0**	---	---	---

ADDITIVES

Calcium	ppm	**254**	---	---	---
Magnesium	ppm	**1**	---	---	---
Zinc	ppm	**69**	---	---	---
Phosphorus	ppm	**233**	---	---	---
Barium	ppm	**0**	---	---	---
Boron	ppm	**0**	---	---	---

Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.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: INTALT
Unique No: 10551399
Signed: Wes Davis
Report Date: 13 Jul 2023

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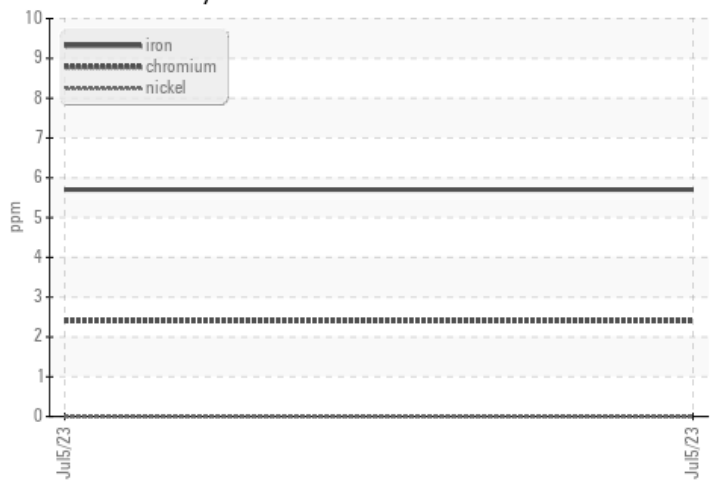
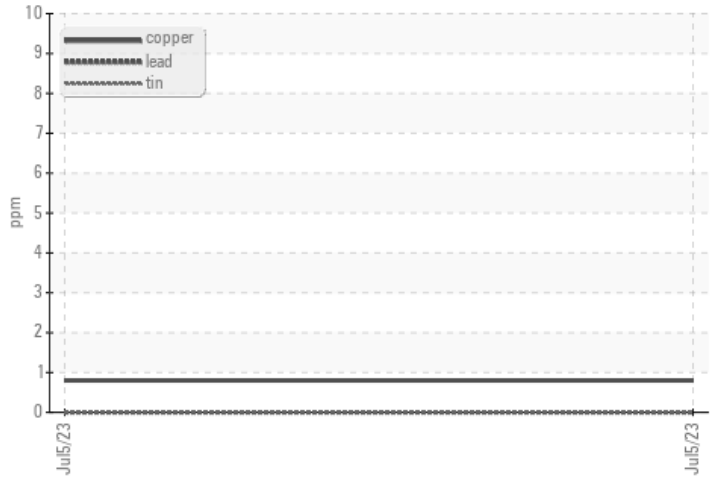
GRAPHS

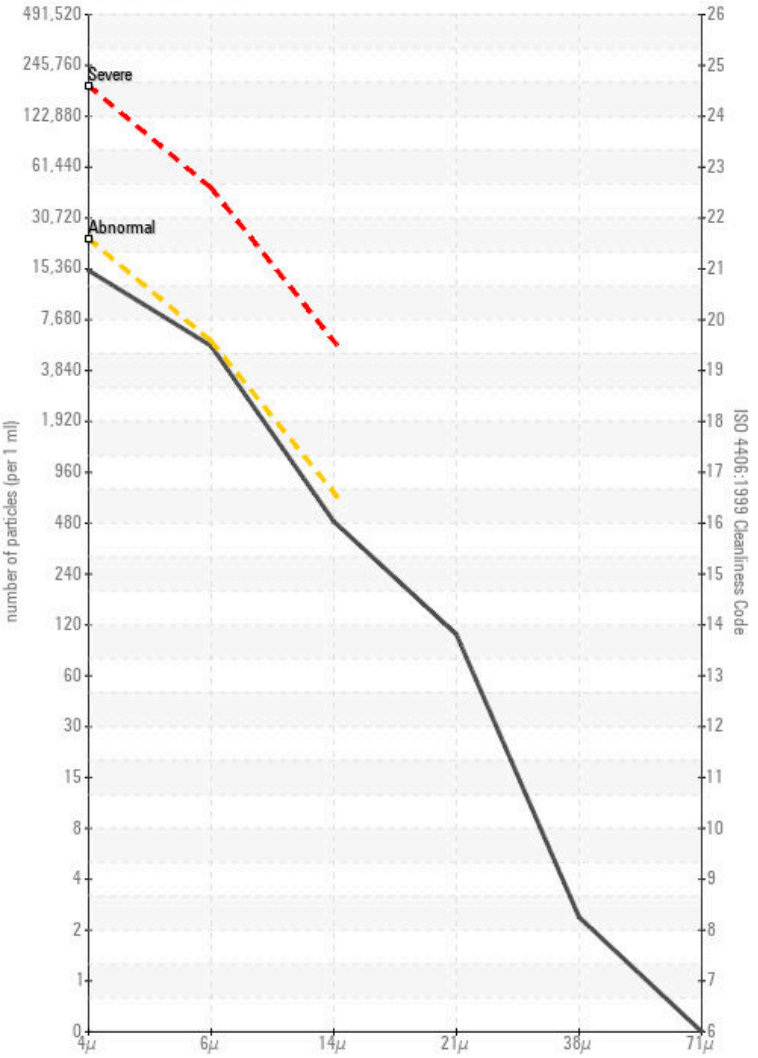
Ferrous Alloys



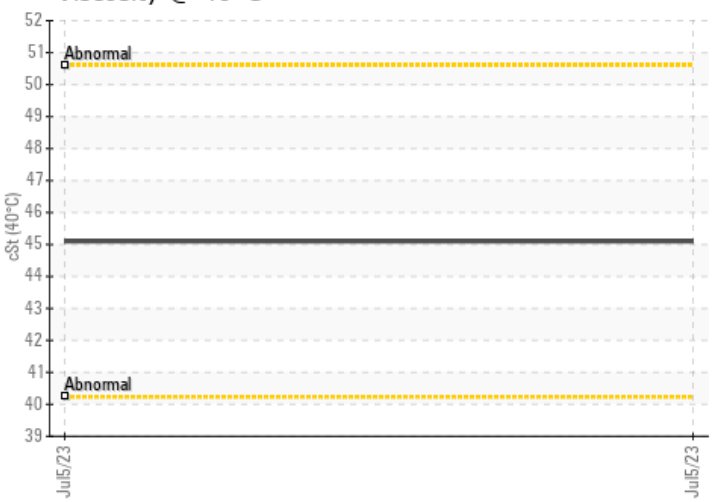
Non-ferrous Metals



Particle Count



Viscosity @ 40°C



Acid Number