LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR R926 050225-1715 - Hydraulic System

Sample No: LH0236014

Oil Type: LIEBHERR GEAR BASIC 90 LS

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

SAMPLE INFORMATION

Sample Number		**LH0236014**	---	---	---
Sample Date		**16 Jan 2024**	---	---	---
Machine Hours		**835**	---	---	---
Oil Hours		**0**	---	---	---
Oil Changed		**Changed**	---	---	---
Sample Status		**ATTENTION**	---	---	---

OIL CONDITION

Visc @ 40°C	cSt	**43.4**	---	---	---
Acid Number (AN)	mg KOH/g	**0.96**	---	---	---

CONTAMINATION

Water	%	**NEG**	---	---	---
Particles >4µm		**31393**	---	---	---
Particles >6µm		**4426**	---	---	---
Particles >14µm		**181**	---	---	---
ISO 4406:1999 (c)		**22/19/15**	---	---	---
Silicon	ppm	**4**	---	---	---
Sodium	ppm	**<1**	---	---	---
Potassium	ppm	**2**	---	---	---

WEAR METALS

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

ADDITIVES

Calcium	ppm	**2290**	---	---	---
Magnesium	ppm	**26**	---	---	---
Zinc	ppm	**978**	---	---	---
Phosphorus	ppm	**911**	---	---	---
Barium	ppm	**<1**	---	---	---
Boron	ppm	**19**	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

Depot: INTALT
Unique No: 10845702
Signed: Don Baldridge
Report Date: 25 Jan 2024

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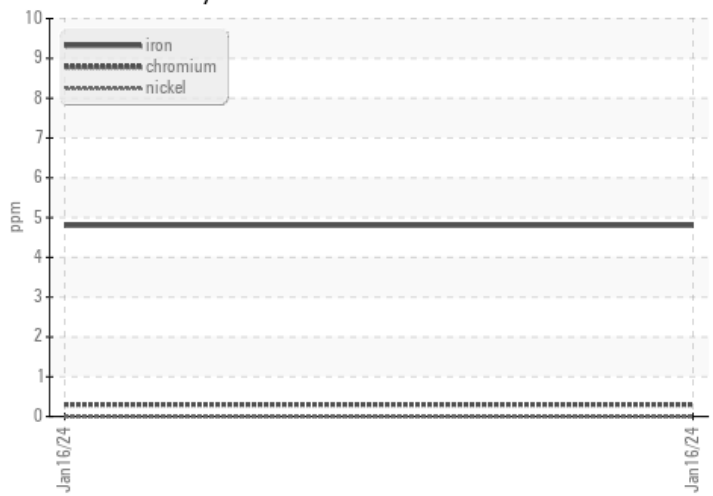
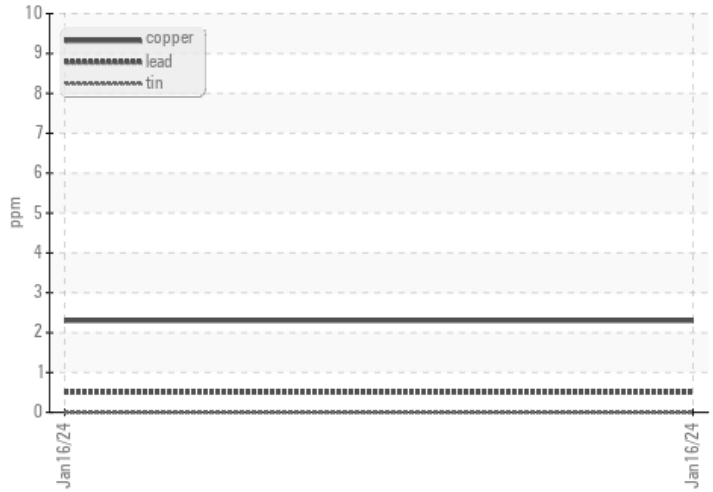
GRAPHS

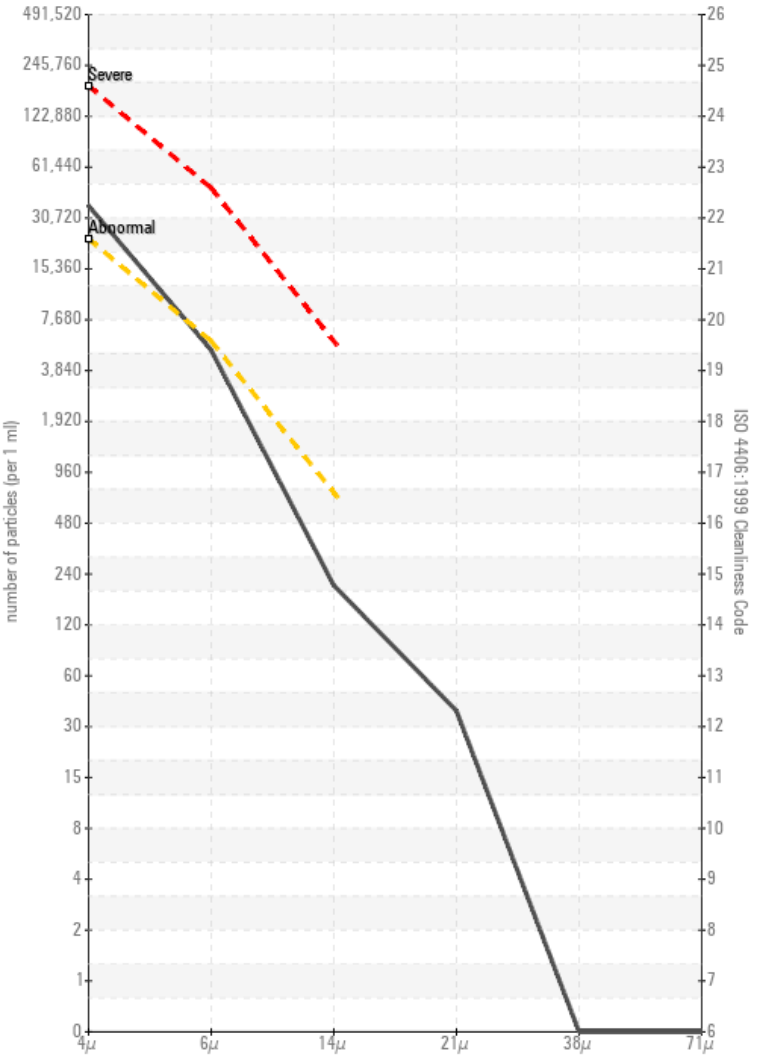
Ferrous Alloys



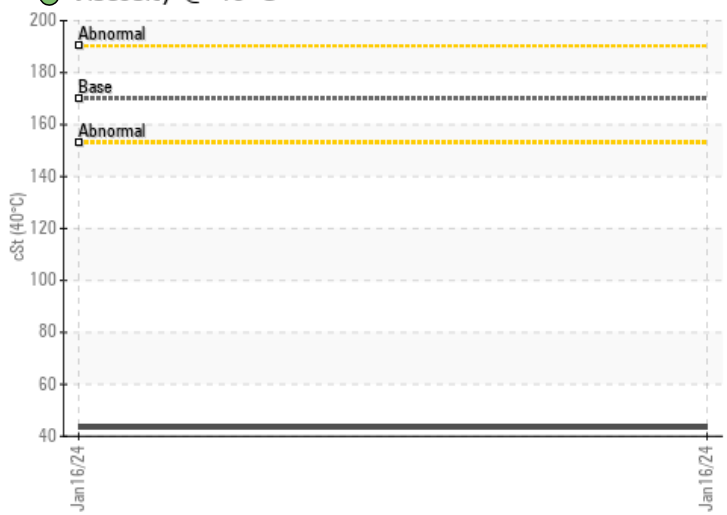
Non-ferrous Metals



Particle Count



Viscosity @ 40°C



Acid Number