LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR T60-9 022201-1709 - Hydraulic System

Sample No: LH0228240

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL

ECOWASTE INDUSTRIES
4 SPRUCE ST
NEW WESTMINSTER, BC
CA V3L 5G6
Contact: Service Manager

T:
F:

SAMPLE INFORMATION

Sample Number		**LH0228240**	---	---	---
Sample Date		**20 Feb 2024**	---	---	---
Machine Hours		**1045**	---	---	---
Oil Hours		**0**	---	---	---
Oil Changed		**Not Changd**	---	---	---
Sample Status		**NORMAL**	---	---	---

OIL CONDITION

Visc @ 40°C	cSt	**45.2**	---	---	---
Acid Number (AN)	mg KOH/g	**1.21**	---	---	---

CONTAMINATION

Water	%	**NEG**	---	---	---
Particles >4µm		**7790**	---	---	---
Particles >6µm		**918**	---	---	---
Particles >14µm		**20**	---	---	---
ISO 4406:1999 (c)		**20/17/11**	---	---	---
Silicon	ppm	**2**	---	---	---
Sodium	ppm	**<1**	---	---	---
Potassium	ppm	**2**	---	---	---

WEAR METALS

Iron	ppm	**6**	---	---	---
Copper	ppm	**4**	---	---	---
Lead	ppm	**2**	---	---	---
Tin	ppm	**0**	---	---	---
Aluminum	ppm	**1**	---	---	---
Chromium	ppm	**0**	---	---	---
Molybdenum	ppm	**0**	---	---	---
Nickel	ppm	**<1**	---	---	---
Titanium	ppm	**0**	---	---	---
Silver	ppm	**0**	---	---	---
Manganese	ppm	**0**	---	---	---
Vanadium	ppm	**0**	---	---	---

ADDITIVES

Calcium	ppm	**1242**	---	---	---
Magnesium	ppm	**4**	---	---	---
Zinc	ppm	**690**	---	---	---
Phosphorus	ppm	**625**	---	---	---
Barium	ppm	**0**	---	---	---
Boron	ppm	**1**	---	---	---

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. 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. Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot: ECONEW
Unique No: 5734549
Signed: Kevin Marson
Report Date: 26 Feb 2024

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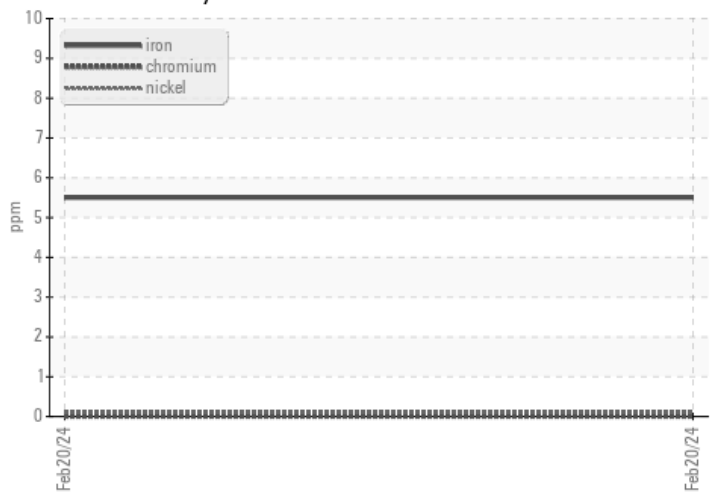
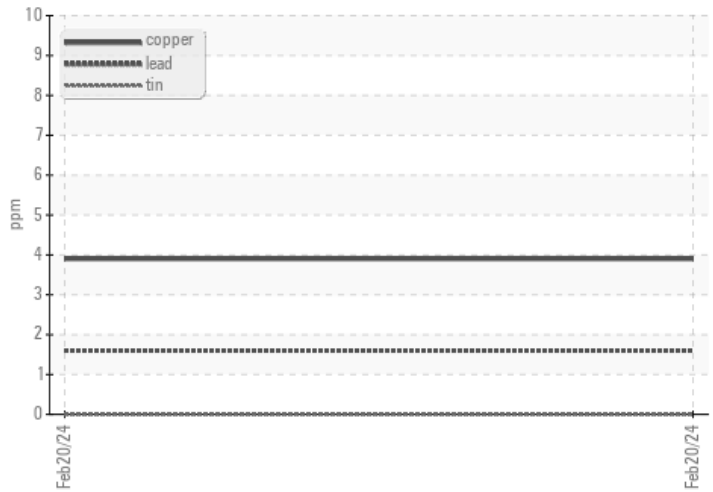
GRAPHS

Ferrous Alloys

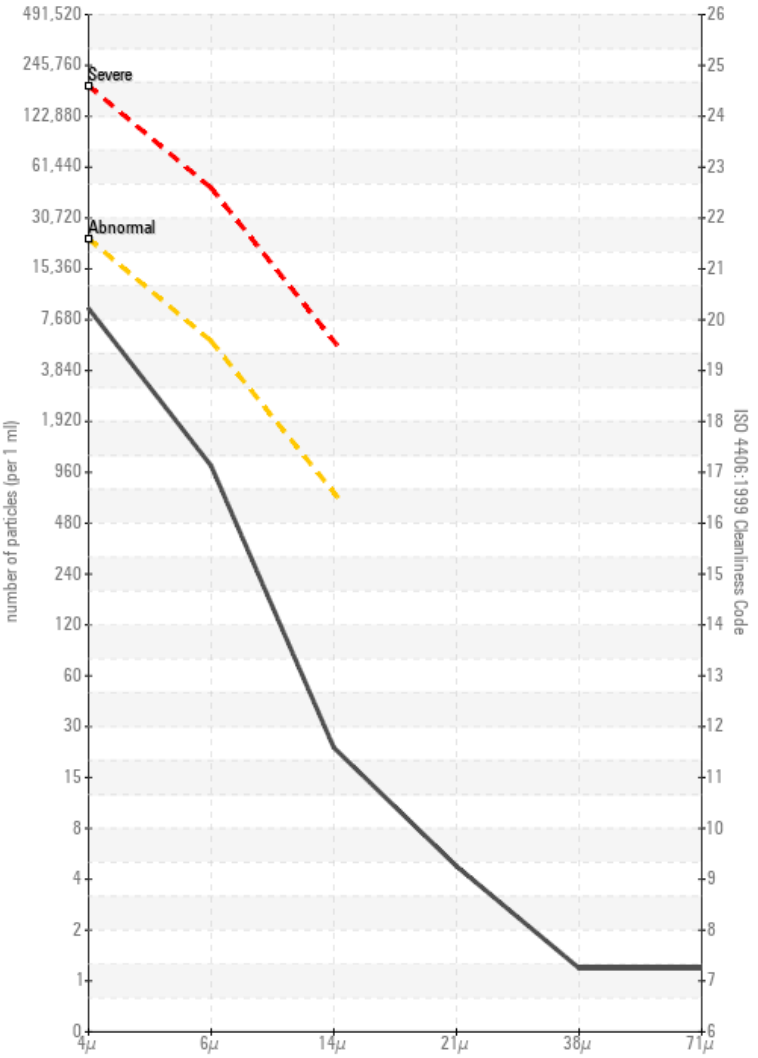


Non-ferrous Metals



Viscosity @ 40°C

Particle Count



Acid Number