LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR L526 51804 - Hydraulic System

Sample No: LH0225024

Oil Type: AW HYDRAULIC OIL ISO 32

SHAMROCK EARTHWORKS LTD
351 EVERSYDE WAY SW
CALGARY, AB
CA T2Y 4R2
Contact: Service Manager

T:
F:

Sample Information

Sample Number		**LH0225024**	---	---	---
Sample Date		**26 Jan 2024**	---	---	---
Machine Hours		**2483**	---	---	---
Oil Hours		**0**	---	---	---
Oil Changed		**Not Changd**	---	---	---
Sample Status		**ABNORMAL**	---	---	---

Oil Condition

Visc @ 40°C	cSt	**37.4**	---	---	---

Contamination

Water	%	**NEG**	---	---	---
Particles >4µm		**55975**	---	---	---
Particles >6µm		**6116**	---	---	---
Particles >14µm		**256**	---	---	---
ISO 4406:1999 (c)		**23/20/15**	---	---	---
Silicon	ppm	**2**	---	---	---
Sodium	ppm	**0**	---	---	---
Potassium	ppm	**2**	---	---	---

Wear Metals

Iron	ppm	**11**	---	---	---
Copper	ppm	**2**	---	---	---
Lead	ppm	**3**	---	---	---
Tin	ppm	**0**	---	---	---
Aluminum	ppm	**<1**	---	---	---
Chromium	ppm	**<1**	---	---	---
Molybdenum	ppm	**0**	---	---	---
Nickel	ppm	**0**	---	---	---
Titanium	ppm	**0**	---	---	---
Silver	ppm	**0**	---	---	---
Manganese	ppm	**0**	---	---	---
Vanadium	ppm	**0**	---	---	---

Additives

Calcium	ppm	**87**	---	---	---
Magnesium	ppm	**5**	---	---	---
Zinc	ppm	**514**	---	---	---
Phosphorus	ppm	**420**	---	---	---
Barium	ppm	**0**	---	---	---
Boron	ppm	**<1**	---	---	---

Diagnosis

We advise that you check for the source of water entry. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 32. Please confirm.All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. There is a moderate concentration of water present in the oil. Free water present. The viscosity of the oil is higher than normal, possibly indicating the addition of a heavier grade of oil. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Depot: SHA351CAL
Unique No: 5722549
Signed: Bill Quesnel
Report Date: 06 Feb 2024

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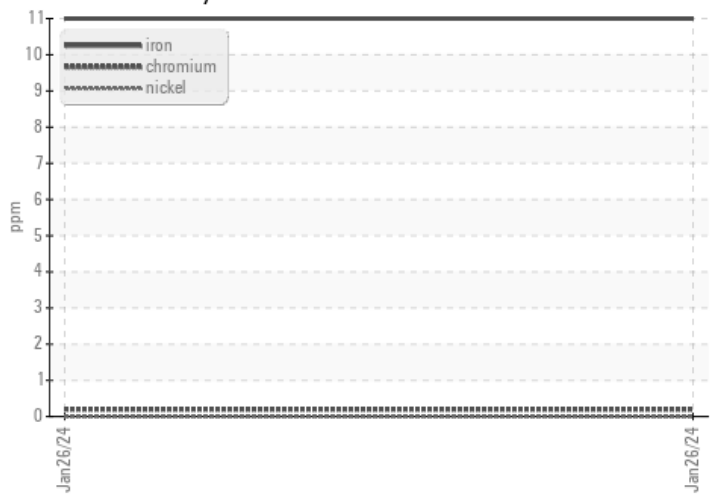
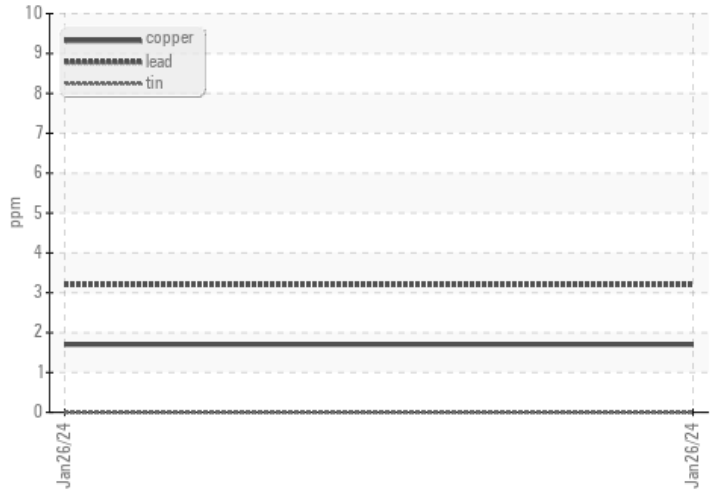
Graphs

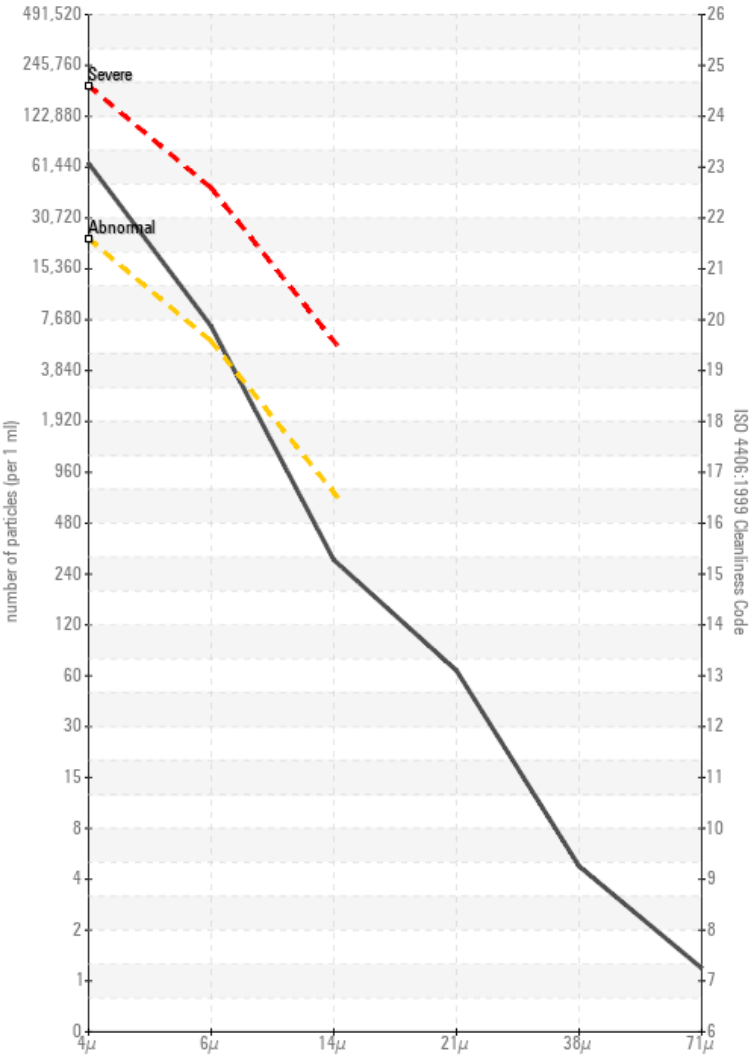
Ferrous Alloys



Non-ferrous Metals



Particle Count



Viscosity @ 40°C