CONSTRUCTION EQUIPMENT

S50601212 VOLVO L120H 632129 - HYDRAULIC SYSTEM

Sample No: VCP403989
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: S50601212

SHAW ENVIRONMENTAL - APTIM GOVT SOLUTIONS
16406 US 224 EAST
FINDLAY, OH
US 45840
Contact: TODD HICKS
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T: (419)425-6248
F:

SAMPLE INFORMATION

Sample Number		**VCP403989**	---	---	---
Sample Date		**26 Oct 2023**	---	---	---
Machine Hours		**3800**	---	---	---
Oil Hours		**0**	---	---	---
Oil Changed		**Not Changd**	---	---	---
Sample Status		**ABNORMAL**	---	---	---

OIL CONDITION

Visc @ 40°C	cSt	**39.8**	---	---	---
Acid Number (AN)	mg KOH/g	**0.25**	---	---	---

CONTAMINATION

Particles >4µm		**14462**	---	---	---
Particles >6µm		**3370**	---	---	---
Particles >14µm		**219**	---	---	---
ISO 4406:1999 (c)		**21/19/15**	---	---	---
Silicon	ppm	**5**	---	---	---
Sodium	ppm	**4**	---	---	---
Potassium	ppm	**2**	---	---	---

WEAR METALS

Iron	ppm	**6**	---	---	---
Copper	ppm	**5**	---	---	---
Lead	ppm	**2**	---	---	---
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	**72**	---	---	---
Magnesium	ppm	**1**	---	---	---
Zinc	ppm	**397**	---	---	---
Phosphorus	ppm	**310**	---	---	---
Barium	ppm	**0**	---	---	---
Boron	ppm	**0**	---	---	---

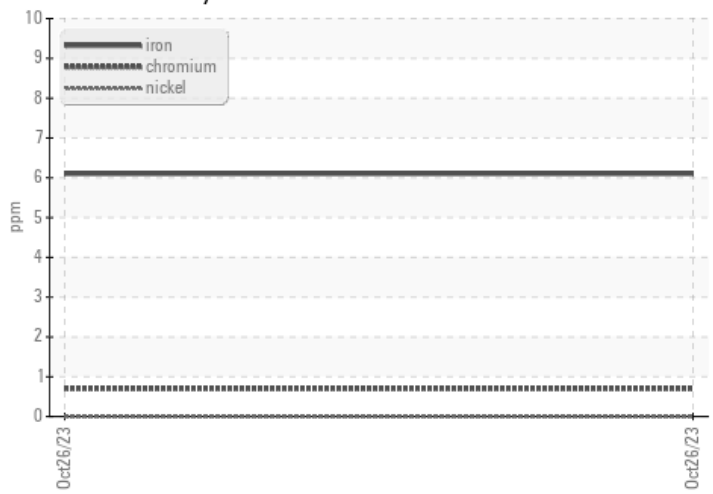
Diagnosis

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

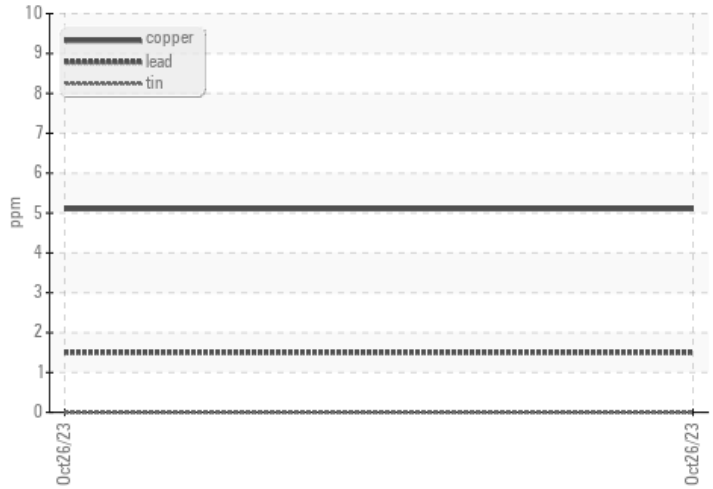
Depot: SHAFINOH
Unique No: 10716267
Signed: Wes Davis
Report Date: 01 Nov 2023

GRAPHS

Ferrous Alloys

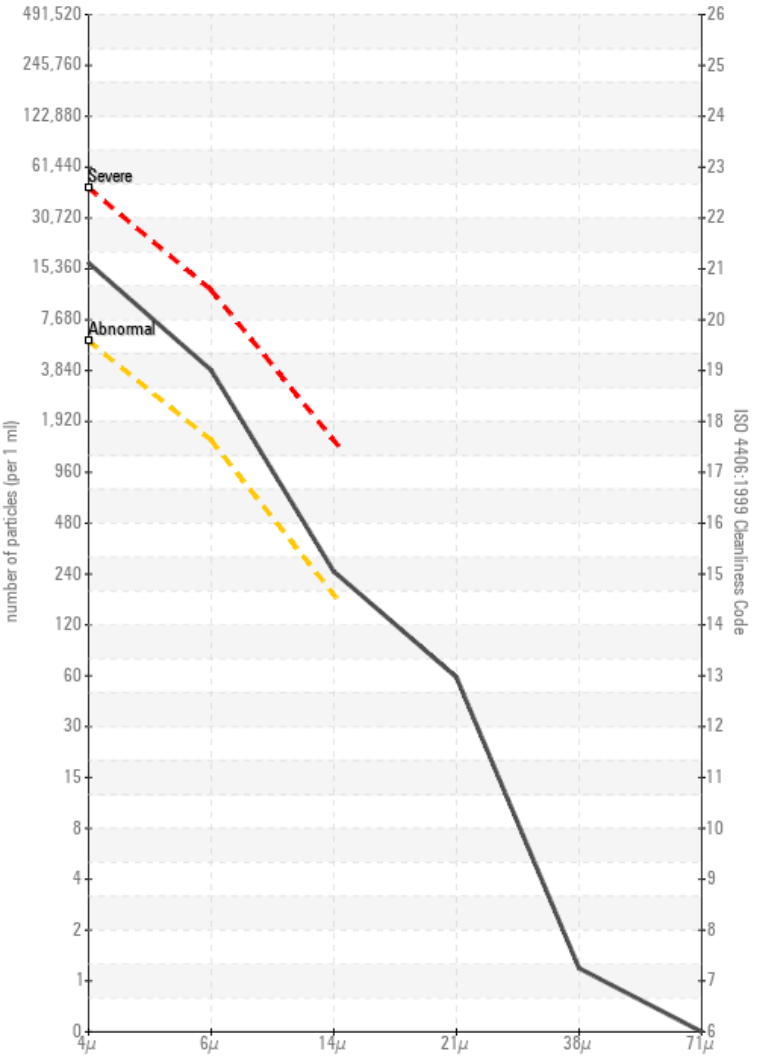


Non-ferrous Metals



Viscosity @ 40°C

Particle Count



Acid Number