



CONSTRUCTION EQUIPMENT

ATLAS ORG VOLVO L70H 624288 - HYDRAULIC SYSTEM



Sample No: VCP422676
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: ATLAS ORG



SAMPLE INFORMATION

Sample Number	VCP422676	VCP355078	---	---
Sample Date	16 Aug 2023	20 Jun 2022	---	---
Machine Hours	2287	925	---	---
Oil Hours	0	925	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	SEVERE	ABNORMAL	---	---

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OIL CONDITION

Visc @ 40°C	cSt	42.2	43.5	---	---
Acid Number (AN)	mg KOH/g	0.32	0.43	---	---



CONTAMINATION

Particles >4µm		31803	78965	---	---
Particles >6µm		8858	11706	---	---
Particles >14µm		1223	645	---	---
ISO 4406:1999 (c)		22/20/17	23/21/17	---	---
Silicon	ppm	3	3	---	---
Sodium	ppm	1	<1	---	---
Potassium	ppm	0	<1	---	---

Diagnosis

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. All component wear rates are normal. There is a high amount of particulates (2 to 100 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.



WEAR METALS

Iron	ppm	6	3	---	---
Copper	ppm	<1	2	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	0	<1	---	---
Aluminum	ppm	0	0	---	---
Chromium	ppm	<1	0	---	---
Molybdenum	ppm	0	<1	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	0	0	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	83	71	---	---
Magnesium	ppm	8	6	---	---
Zinc	ppm	432	416	---	---
Phosphorus	ppm	226	311	---	---
Barium	ppm	0	0	---	---
Boron	ppm	0	4	---	---

Depot: VOLVO0093
Unique No: 10655154
Signed: Wes Davis
Report Date: 20 Sep 2023

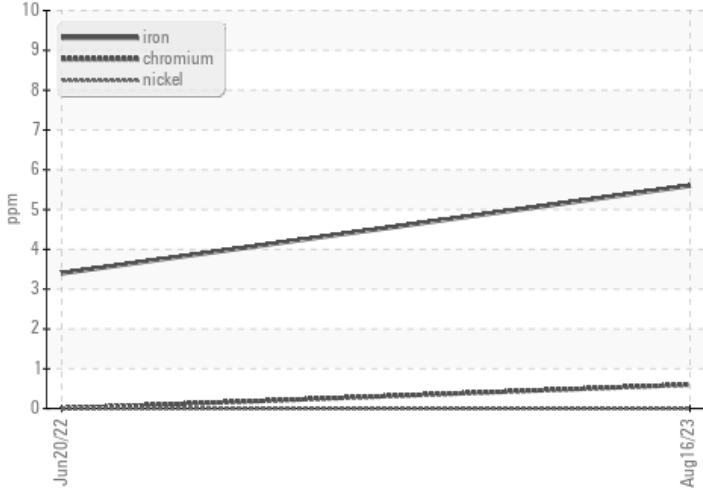


CONSTRUCTION EQUIPMENT

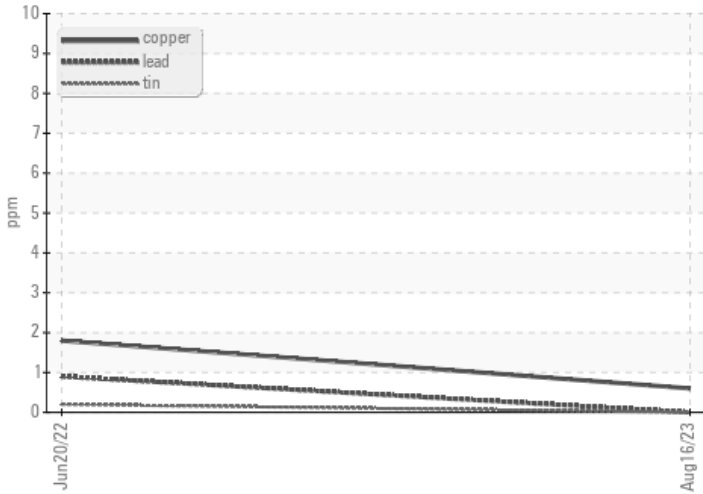


VOLVO GRAPHS

Ferrous Alloys



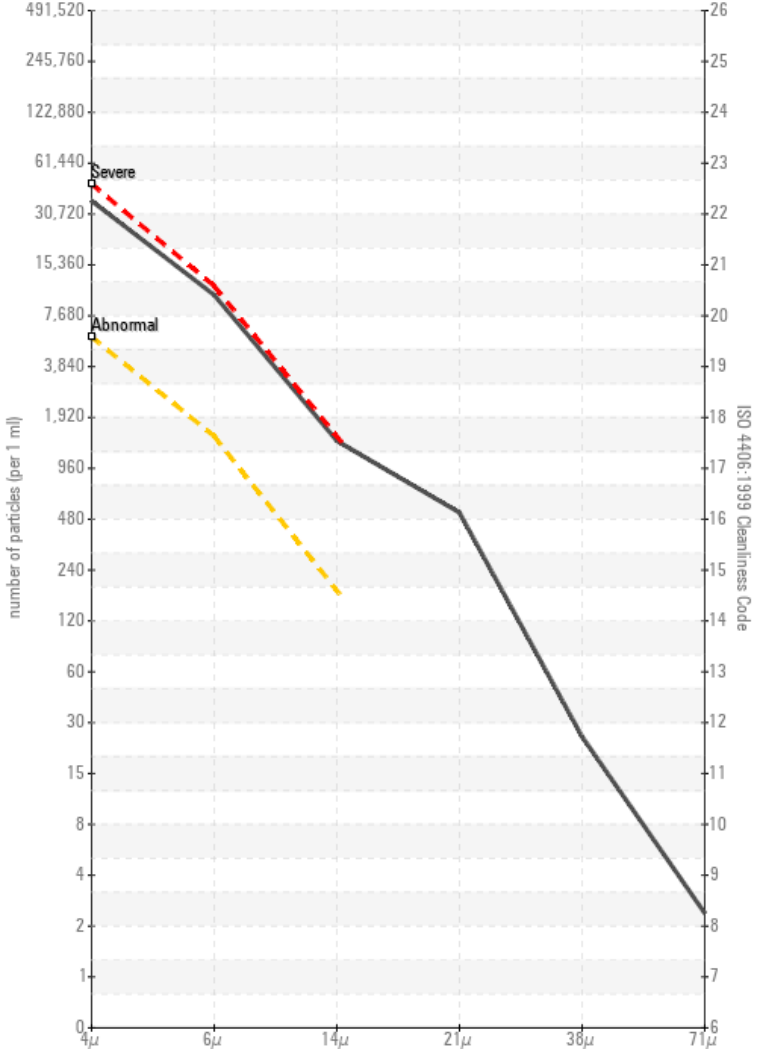
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

