



CONSTRUCTION EQUIPMENT

SW-25206-2 SWIFT VOLVO L60G 611131 - HYDRAULIC SYSTEM



Sample No: VCP430684
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SW-25206-2 SWIFT



SAMPLE INFORMATION

Sample Number	VCP430684	---	---	---
Sample Date	11 Oct 2023	---	---	---
Machine Hours	9716	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

ARNOLD MACHINERY COMPANY

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 US 84119

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OIL CONDITION

Visc @ 40°C	cSt	█ 41.6	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.86	---	---	---



CONTAMINATION

Particles >4µm		23177	---	---	---
Particles >6µm		█ 2137	---	---	---
Particles >14µm		▲ 189	---	---	---
ISO 4406:1999 (c)		22/18/15	---	---	---
Silicon	ppm	▲ 23	---	---	---
Sodium	ppm	█ 9	---	---	---
Potassium	ppm	█ 10	---	---	---

Diagnosis

We advise that you check all areas where dirt can enter the system. 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 high amount of particulates present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	█ 11	---	---	---
Copper	ppm	█ 8	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	▲ 7	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 27	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 2359	---	---	---
Magnesium	ppm	█ 125	---	---	---
Zinc	ppm	█ 1022	---	---	---
Phosphorus	ppm	█ 873	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 68	---	---	---

Depot: VOLVO8770
Unique No: 10699622
Signed: Jonathan Hester
Report Date: 20 Oct 2023

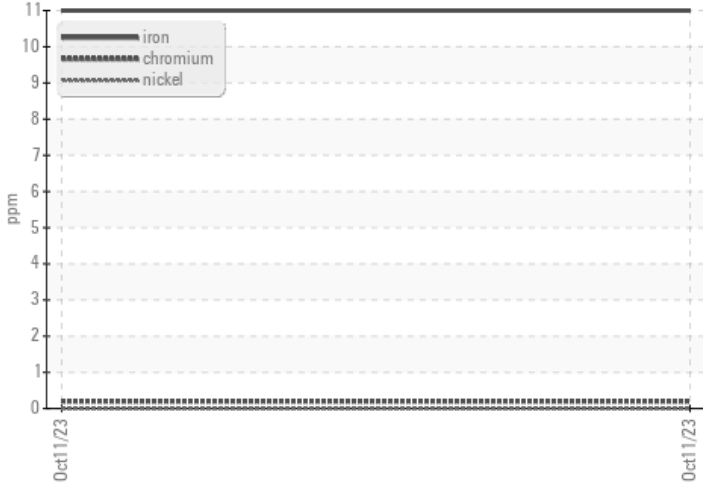


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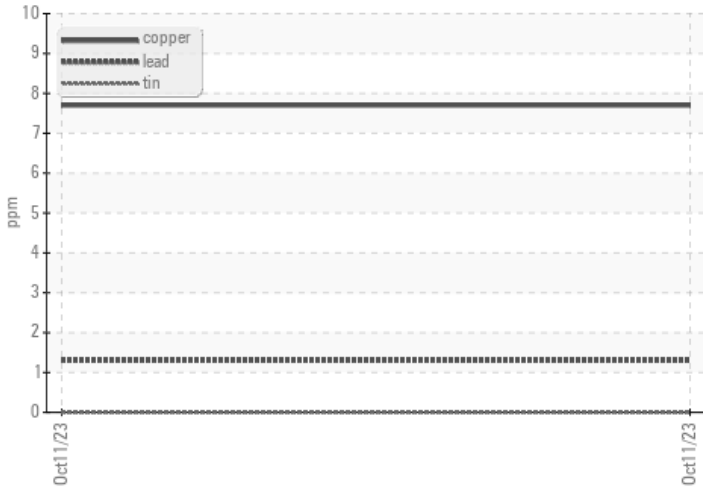


GRAPHS

Ferrous Alloys



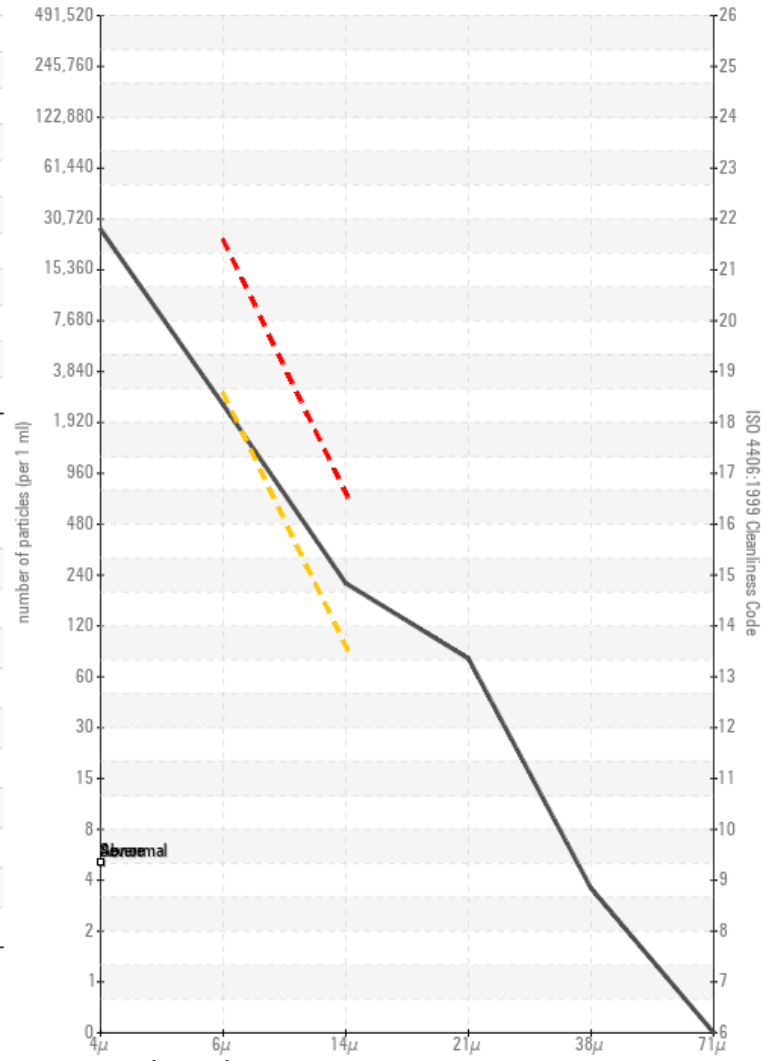
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

