CONSTRUCTION EQUIPMENT
SW102 VOLVO A40F 11702 - HYDRAULIC SYSTEM

Sample No: VCP435899
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SW102

ARNOLD MACHINERY COMPANY
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SAMPLE INFORMATION

Sample Number		**VCP435899**	VCP338012	---	---
Sample Date		**11 Jan 2024**	26 Oct 2021	---	---
Machine Hours		**9062**	8203	---	---
Oil Hours		**0**	0	---	---
Oil Changed		**Changed**	Not Changd	---	---
Sample Status		**NORMAL**	NORMAL	---	---

OIL CONDITION

Visc @ 40°C	cSt	**40.7**	40.4	---	---
Acid Number (AN)	mg KOH/g	**0.36**	0.375	---	---

CONTAMINATION

Water	%	**NEG**	NEG	---	---
Particles >4µm		**1311**	1668	---	---
Particles >6µm		**111**	142	---	---
Particles >14µm		**6**	11	---	---
ISO 4406:1999 (c)		**18/14/10**	18/14/11	---	---
Silicon	ppm	**13**	13	---	---
Sodium	ppm	**2**	2	---	---
Potassium	ppm	**<1**	<1	---	---

WEAR METALS

Iron	ppm	**11**	12	---	---
Copper	ppm	**4**	4	---	---
Lead	ppm	**3**	3	---	---
Tin	ppm	**<1**	<1	---	---
Aluminum	ppm	**2**	3	---	---
Chromium	ppm	**0**	<1	---	---
Molybdenum	ppm	**0**	<1	---	---
Nickel	ppm	**0**	0	---	---
Titanium	ppm	**0**	<1	---	---
Silver	ppm	**0**	<1	---	---
Manganese	ppm	**<1**	<1	---	---
Vanadium	ppm	**0**	0	---	---

ADDITIVES

Calcium	ppm	**101**	114	---	---
Magnesium	ppm	**4**	3	---	---
Zinc	ppm	**459**	480	---	---
Phosphorus	ppm	**369**	377	---	---
Barium	ppm	**0**	0	---	---
Boron	ppm	**<1**	5	---	---

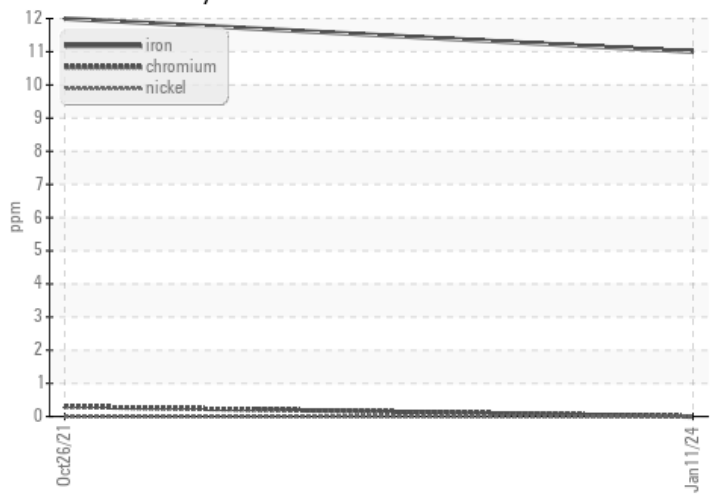
Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 46. Please confirm.
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. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

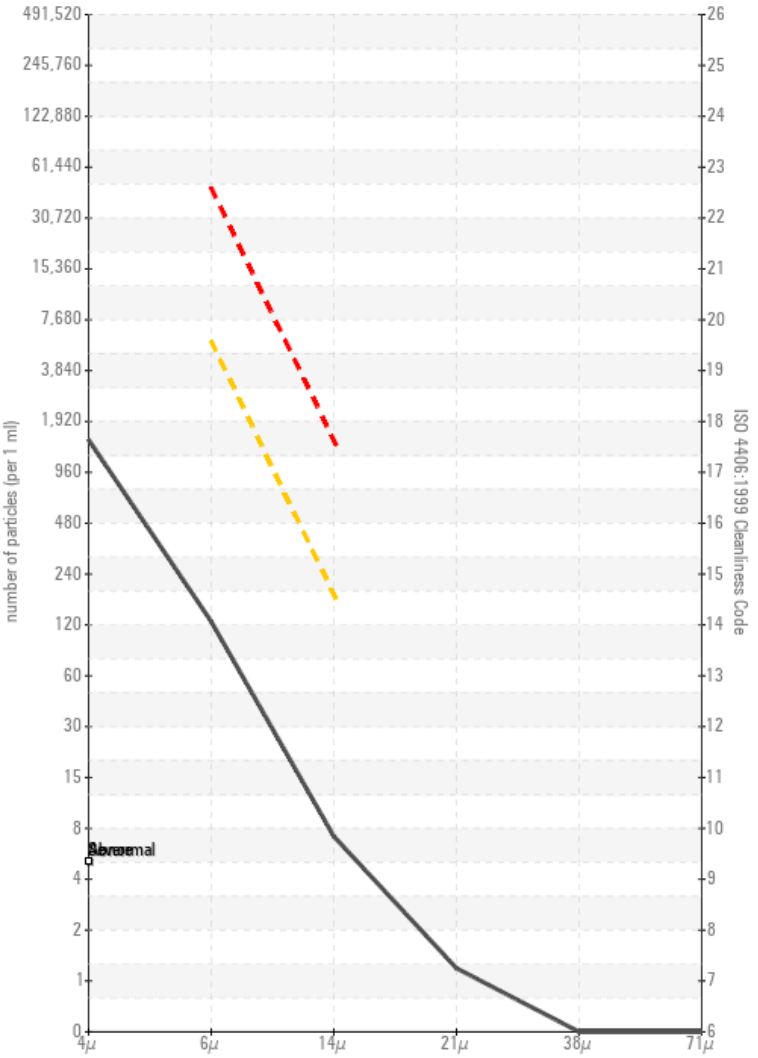
Depot: VOLVO8770
Unique No: 10835615
Signed: Wes Davis
Report Date: 19 Jan 2024

GRAPHS

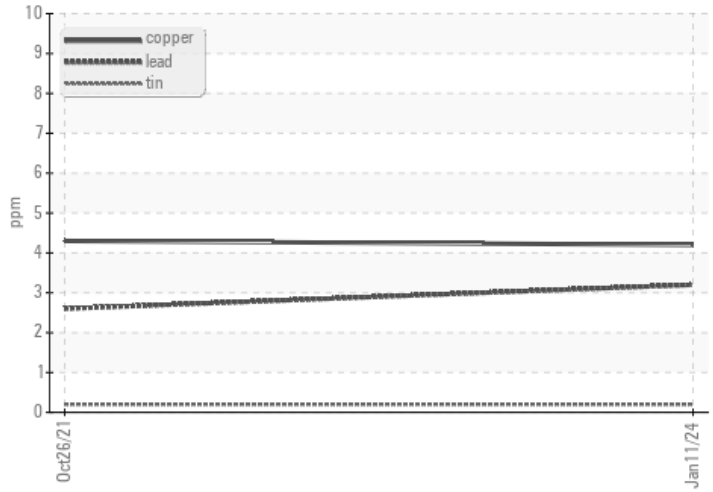
Ferrous Alloys



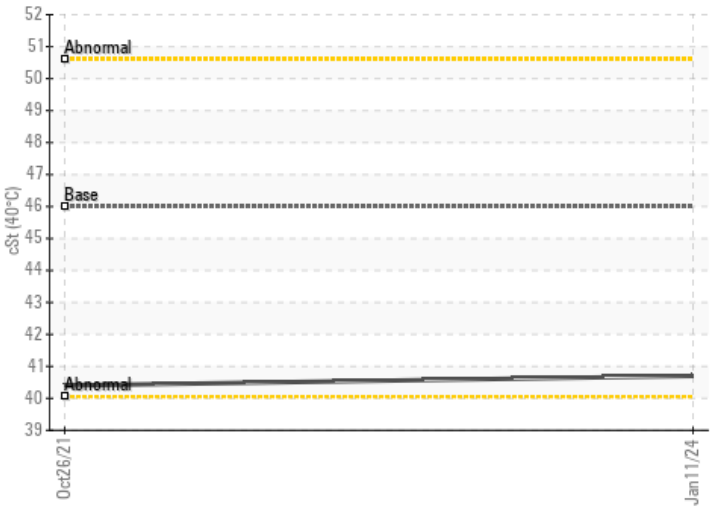
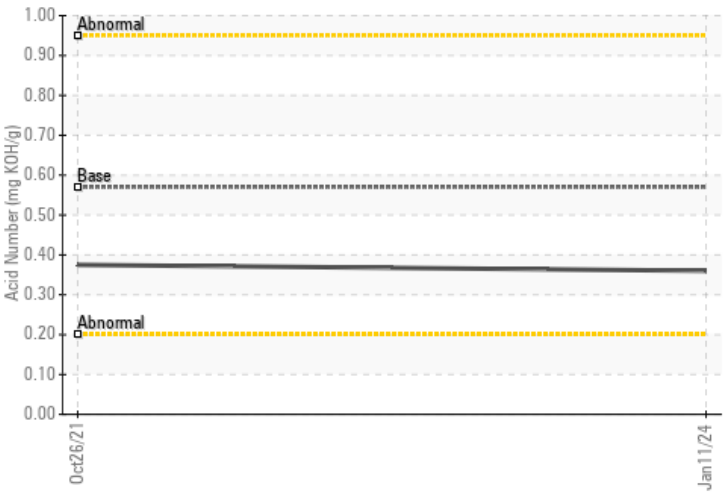
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number