



CONSTRUCTION EQUIPMENT

310706-20 IAA VOLVO L90H 623595 - HYDRAULIC SYSTEM



Sample No: VCP407738
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 310706-20 IAA



SAMPLE INFORMATION

Sample Number	VCP407738	VCP306877	VCP289799	VCP268823
Sample Date	19 Jul 2023	11 Feb 2021	15 Oct 2020	20 May 2020
Machine Hours	12919	8149	7614	6979
Oil Hours	0	4000	3614	6979
Oil Changed	N/A	Changed	Not Changd	Not Changd
Sample Status	ABNORMAL	NORMAL	ABNORMAL	NORMAL

ALTA EQUIPMENT

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 SYRACUSE, NY
 US 13206
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 F: (315)434-9471



OIL CONDITION

Visc @ 40°C	cSt	▲ 104	---	---	■ 40.8
Acid Number (AN)	mg KOH/g	■ 1.80	---	■ 1.087	■ 0.215



CONTAMINATION

Particles >4µm		21162	---	81992	985
Particles >6µm		▲ 4579	---	▲ 17488	■ 85
Particles >14µm		▲ 169	---	▲ 424	■ 11
ISO 4406:1999 (c)		22/19/15	---	24/21/16	17/14/11
Silicon	ppm	■ 11	■ 4	■ 4	■ 4
Sodium	ppm	■ 0	■ 3	■ 0	■ 0
Potassium	ppm	■ 1	■ 1	■ <1	■ <1



WEAR METALS

Iron	ppm	■ <1	■ 4	■ 5	■ 3
Copper	ppm	■ 0	■ 3	■ 4	■ 3
Lead	ppm	■ 0	■ 1	■ 1	■ <1
Tin	ppm	■ 4	■ 0	■ 0	■ <1
Aluminum	ppm	■ 0	■ <1	■ 0	■ 0
Chromium	ppm	■ 0	■ <1	■ <1	■ <1
Molybdenum	ppm	▲ 52	■ <1	■ <1	■ <1
Nickel	ppm	■ 0	■ <1	■ 0	■ 0
Titanium	ppm	0	0	0	0
Silver	ppm	<1	<1	<1	0
Manganese	ppm	■ 0	■ 0	■ <1	■ <1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	▲ 1105	■ 80	■ 80	■ 61
Magnesium	ppm	▲ 769	■ 2	■ 2	■ 2
Zinc	ppm	▲ 1131	■ 427	■ 439	■ 440
Phosphorus	ppm	■ 934	■ 351	■ 329	■ 334
Barium	ppm	■ <1	■ 0	■ 0	■ 0
Boron	ppm	■ 11	■ 2	■ 2	■ 1

Diagnosis

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of particulates present in the oil. The oil viscosity is higher than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

Depot: VOLV00142
Unique No: 10566743
Signed: Jonathan Hester
Report Date: 27 Jul 2023

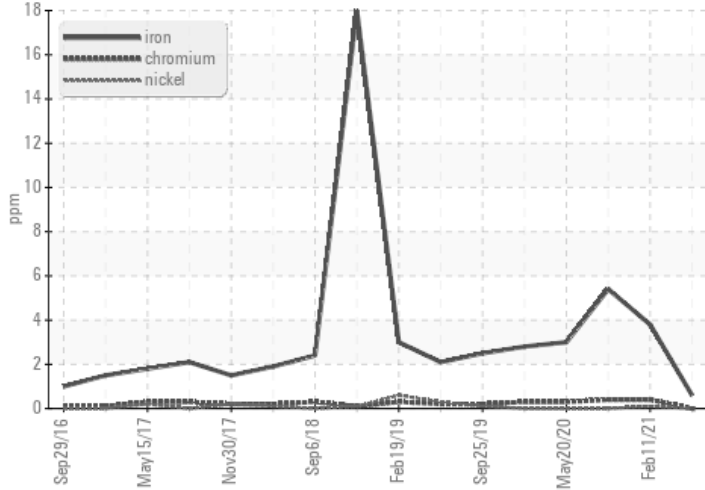


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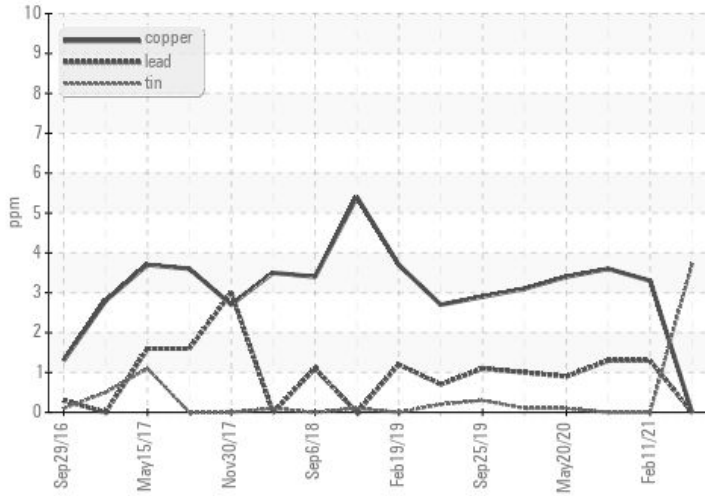


VOLVO GRAPHS

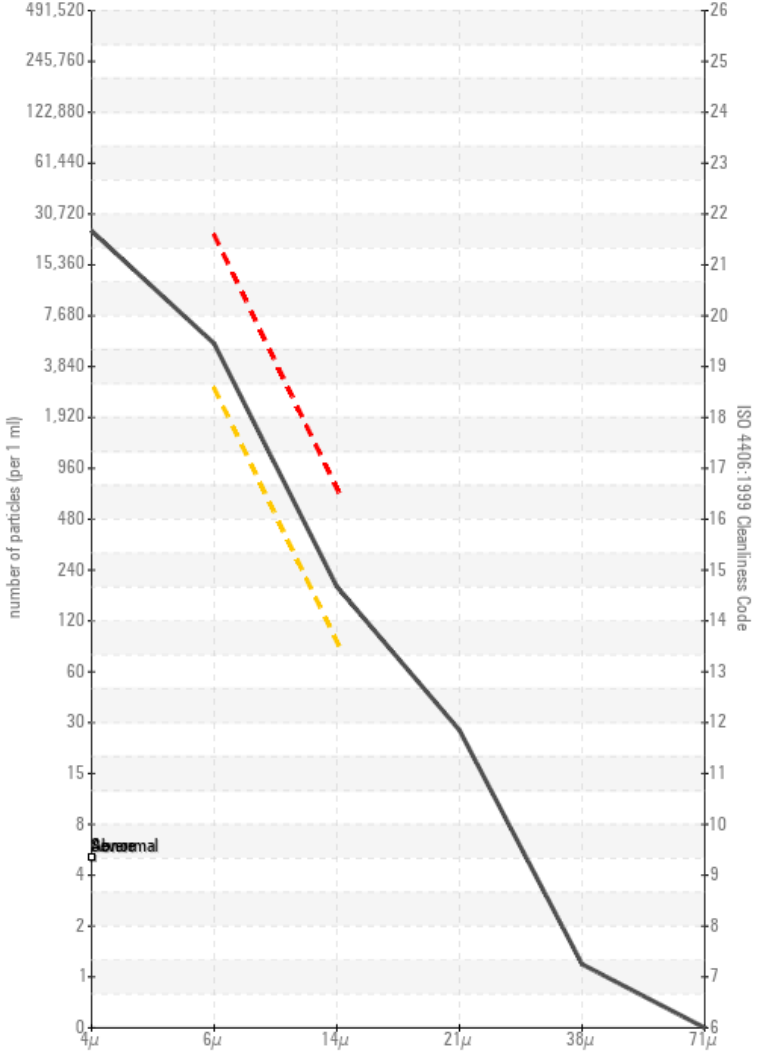
Ferrous Alloys



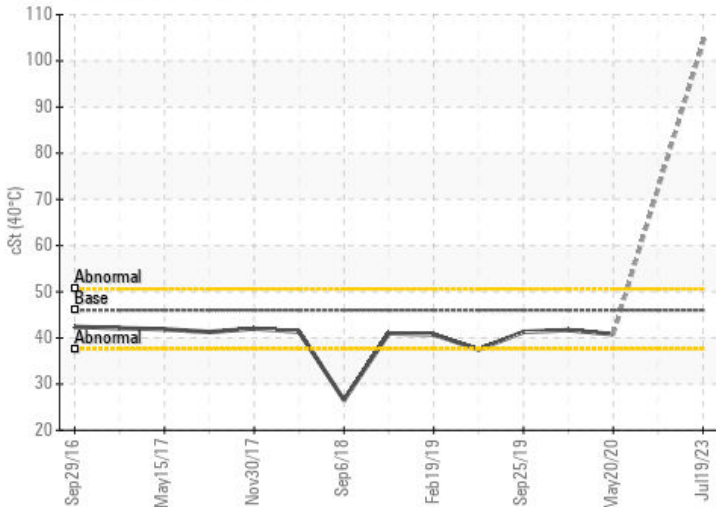
Non-ferrous Metals



Particle Count



Viscosity @ 40°C



Acid Number

