



CONSTRUCTION EQUIPMENT

VOLVO A40G 352025 - HYDRAULIC SYSTEM



Sample No: VCP447443

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP447443	VCP412638	VCP331588	VCP405661
Sample Date	29 Apr 2024	14 Feb 2024	06 Nov 2023	21 Aug 2023
Machine Hours	10924	10331	9810	9271
Oil Hours	593	2078	1557	1021
Oil Changed	Changed	Changed	Not Changd	Not Changd
Sample Status	NORMAL	ABNORMAL	ABNORMAL	ATTENTION

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OIL CONDITION

Visc @ 40°C	cSt	39.5	39.63	39.7	40.0
Acid Number (AN)	mg KOH/g	1.20	1.29	1.08	1.04



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		4433	---	24645	18141
Particles >6µm		913	---	7393	3801
Particles >14µm		19	---	371	161
ISO 4406:1999 (c)		19/17/11	---	22/20/16	21/19/15
Silicon	ppm	13	14	14	15
Sodium	ppm	4	4	0	3
Potassium	ppm	0	0	2	0

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

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



ADDITIVES

Calcium	ppm	2999	2951	3241	3027
Magnesium	ppm	25	18	24	23
Zinc	ppm	962	895	1054	1005
Phosphorus	ppm	839	801	880	811
Barium	ppm	<1	0	0	0
Boron	ppm	0	1	2	0

Depot: SCHGRE
Unique No: 11018654
Signed: Don Baldrige
Report Date: 10 May 2024

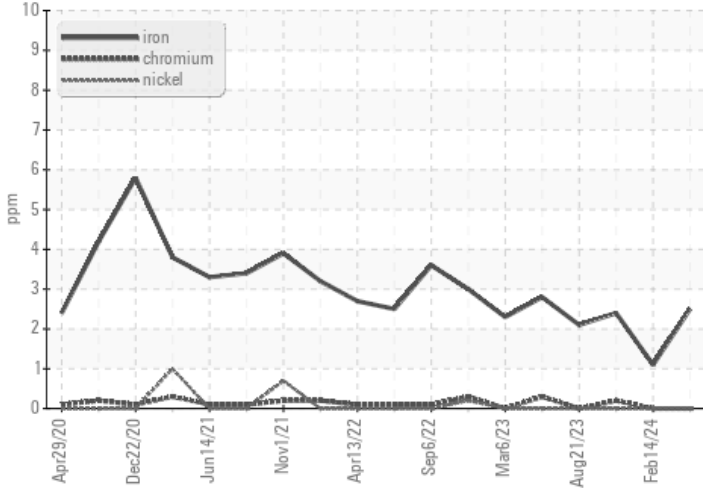


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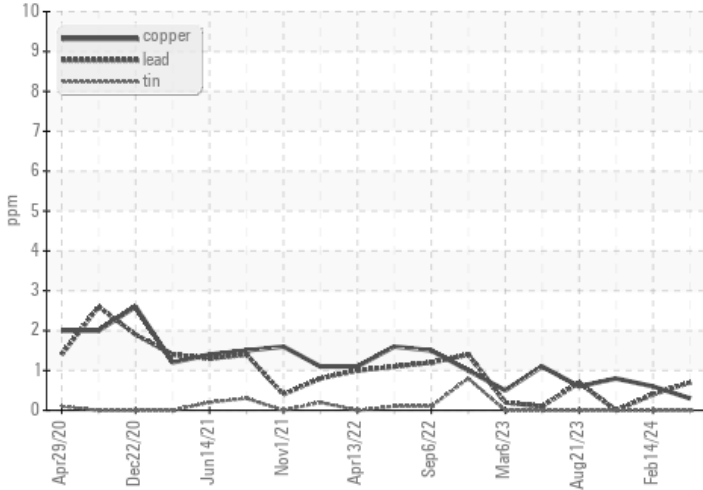


GRAPHS

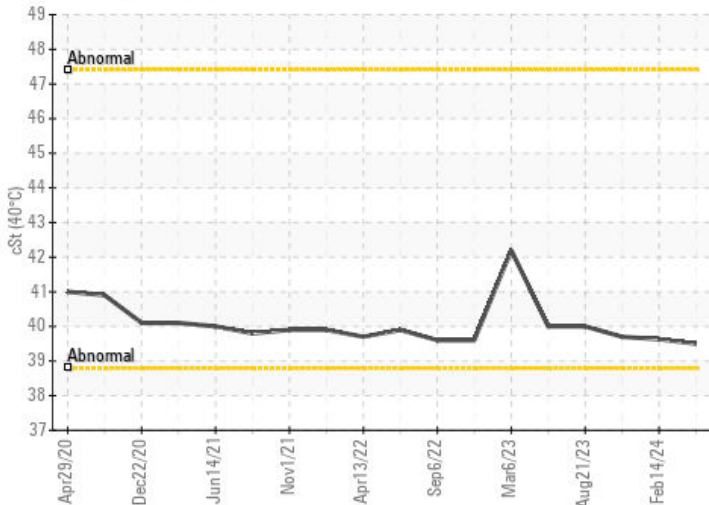
Ferrous Alloys



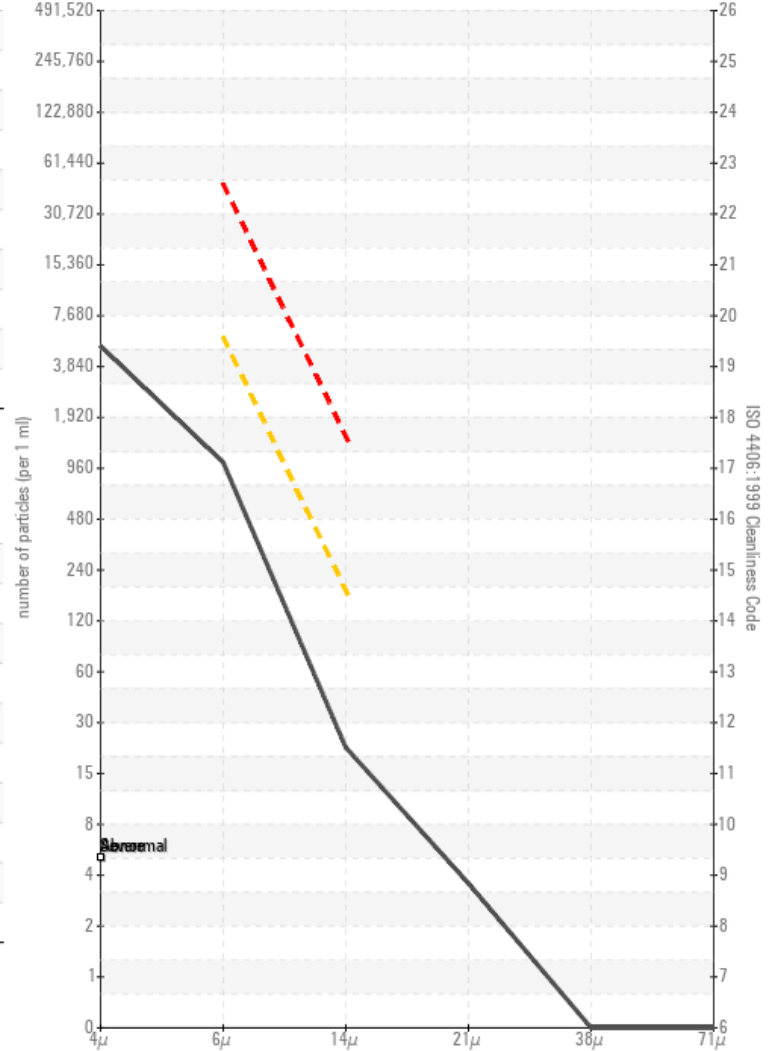
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

