



CONSTRUCTION EQUIPMENT

VOLVO A40G 342010 - HYDRAULIC SYSTEM



Sample No: VCP362769

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP362769	VCP312960	VCP379371	VCP384431
Sample Date	24 Oct 2023	12 Sep 2023	20 Jun 2023	27 Mar 2023
Machine Hours	8705	8374	7743	7115
Oil Hours	1590	1259	628	2014
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	NORMAL	ABNORMAL	ATTENTION	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	41.7	41.5	41.8	42.5
Acid Number (AN)	mg KOH/g	0.68	0.57	0.66	0.23



CONTAMINATION

Particles >4µm		7208	49027	3105	779
Particles >6µm		2126	▲ 11950	1106	150
Particles >14µm		89	▲ 467	133	9
ISO 4406:1999 (c)		20/18/14	23/21/16	19/17/14	17/14/10
Silicon	ppm	12	11	9	8
Sodium	ppm	3	2	1	0
Potassium	ppm	<1	0	<1	1

Diagnosis

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



WEAR METALS

Iron	ppm	4	5	5	8
Copper	ppm	2	2	1	3
Lead	ppm	<1	<1	<1	1
Tin	ppm	<1	0	<1	0
Aluminum	ppm	2	<1	2	0
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	<1	<1	1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1426	1417	1587	255
Magnesium	ppm	17	17	15	4
Zinc	ppm	701	673	775	462
Phosphorus	ppm	563	539	634	353
Barium	ppm	0	0	0	0
Boron	ppm	1	0	0	0

Depot: SCHGRE
Unique No: 10723882
Signed: Don Baldrige
Report Date: 02 Nov 2023

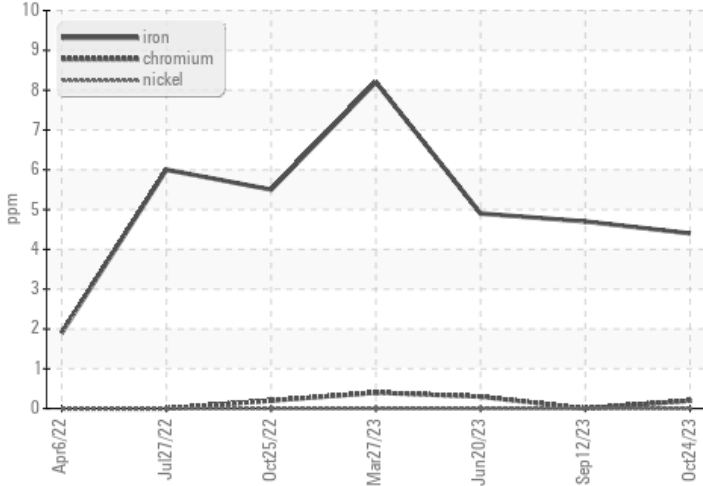


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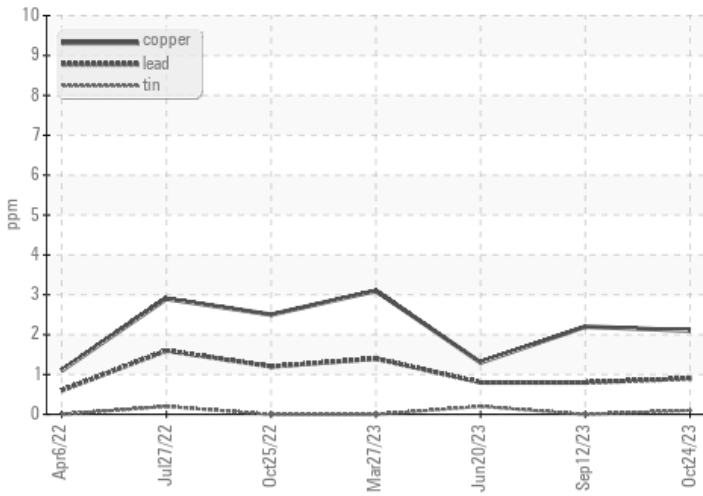


GRAPHS

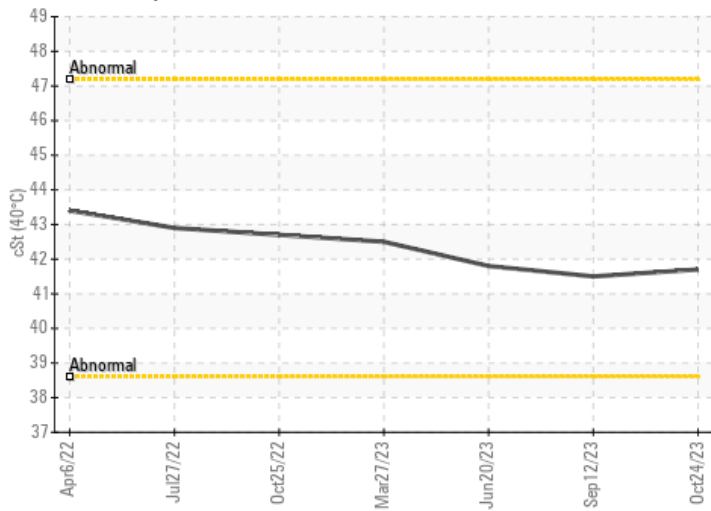
Ferrous Alloys



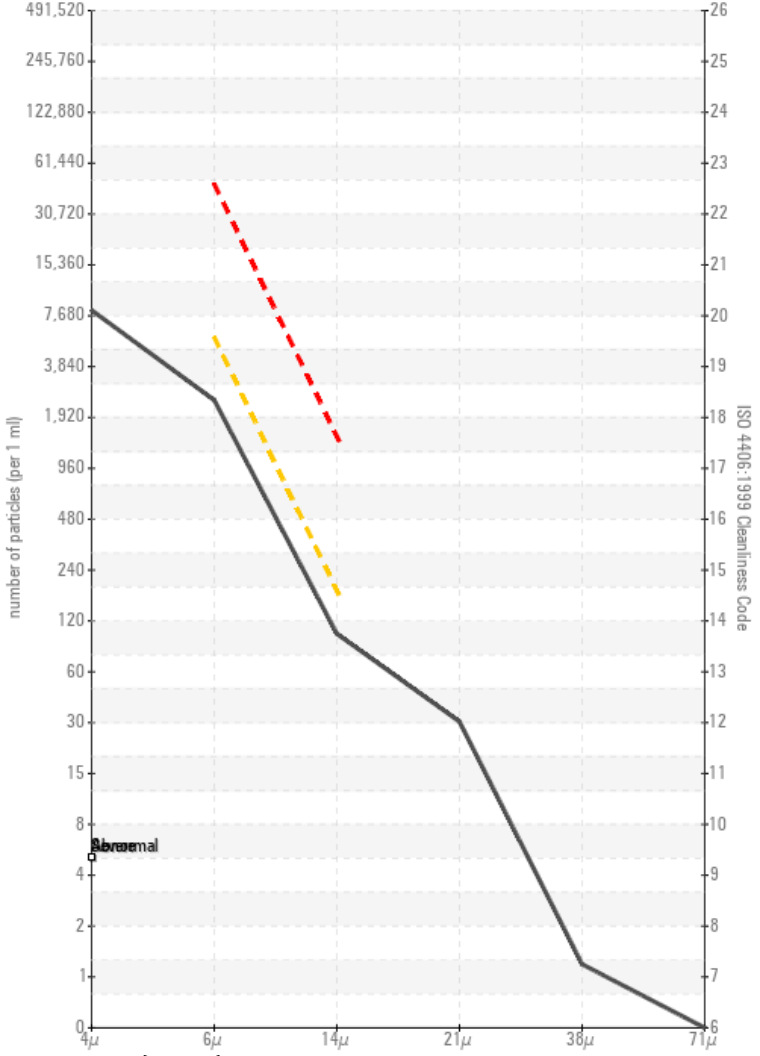
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

