



CONSTRUCTION EQUIPMENT

VOLVO A40G 342658 - HYDRAULIC SYSTEM



Sample No: VCP433285

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP433285	VCP312843	VCP339697	VCP402331
Sample Date	02 Apr 2024	11 Dec 2023	03 Oct 2023	13 Jul 2023
Machine Hours	10545	9899	9447	8893
Oil Hours	1098	452	2158	1604
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	NORMAL	ATTENTION	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	39.6	39.6	39.4	40.0
Acid Number (AN)	mg KOH/g	1.21	1.05	1.16	1.11



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		14337	5244	---	53516
Particles >6µm		3101	1887	---	17974
Particles >14µm		82	186	---	1041
ISO 4406:1999 (c)		21/19/14	20/18/15	---	23/21/17
Silicon	ppm	14	13	14	13
Sodium	ppm	4	3	3	2
Potassium	ppm	0	0	0	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	2	3	3
Copper	ppm	1	<1	<1	0
Lead	ppm	<1	0	<1	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	2	1	2	2
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	2	2	2	2
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	3271	3098	2952	3096
Magnesium	ppm	27	25	24	29
Zinc	ppm	1069	1041	1004	1061
Phosphorus	ppm	937	869	835	855
Barium	ppm	0	0	0	0
Boron	ppm	2	2	2	1

Depot: SCHGRE
Unique No: 10989689
Signed: Don Baldrige
Report Date: 23 Apr 2024

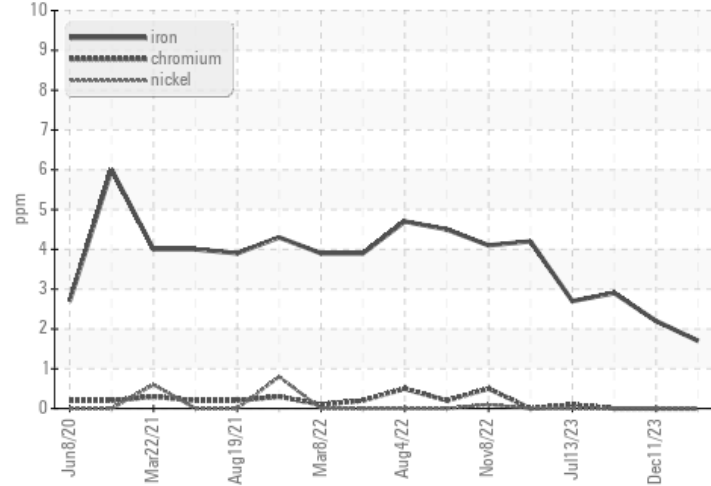


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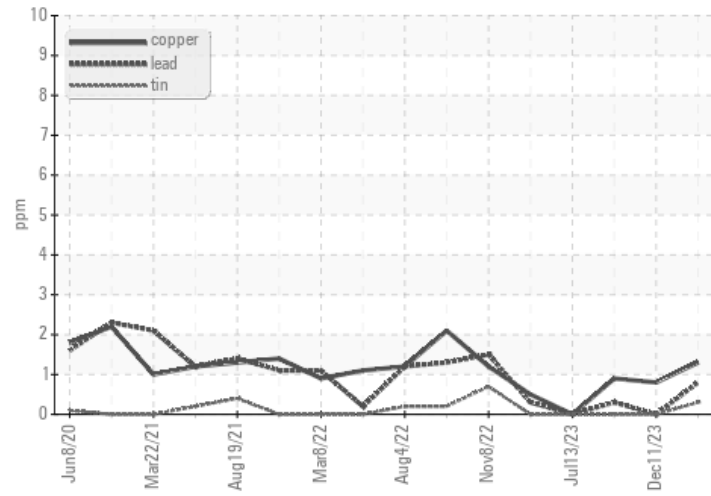


GRAPHS

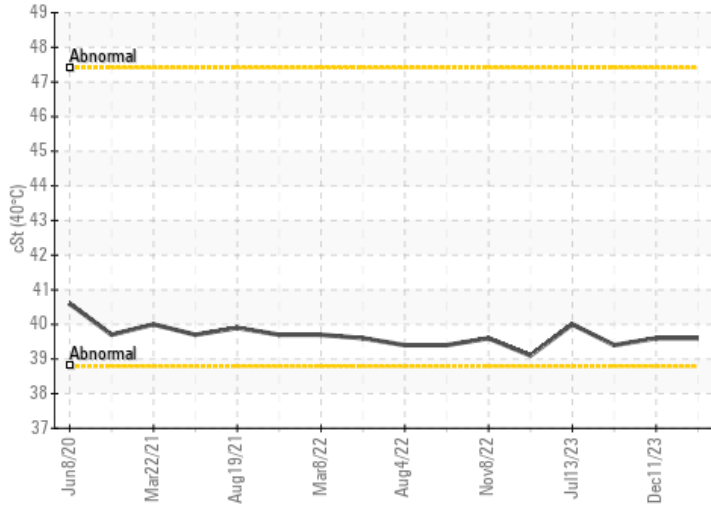
Ferrous Alloys



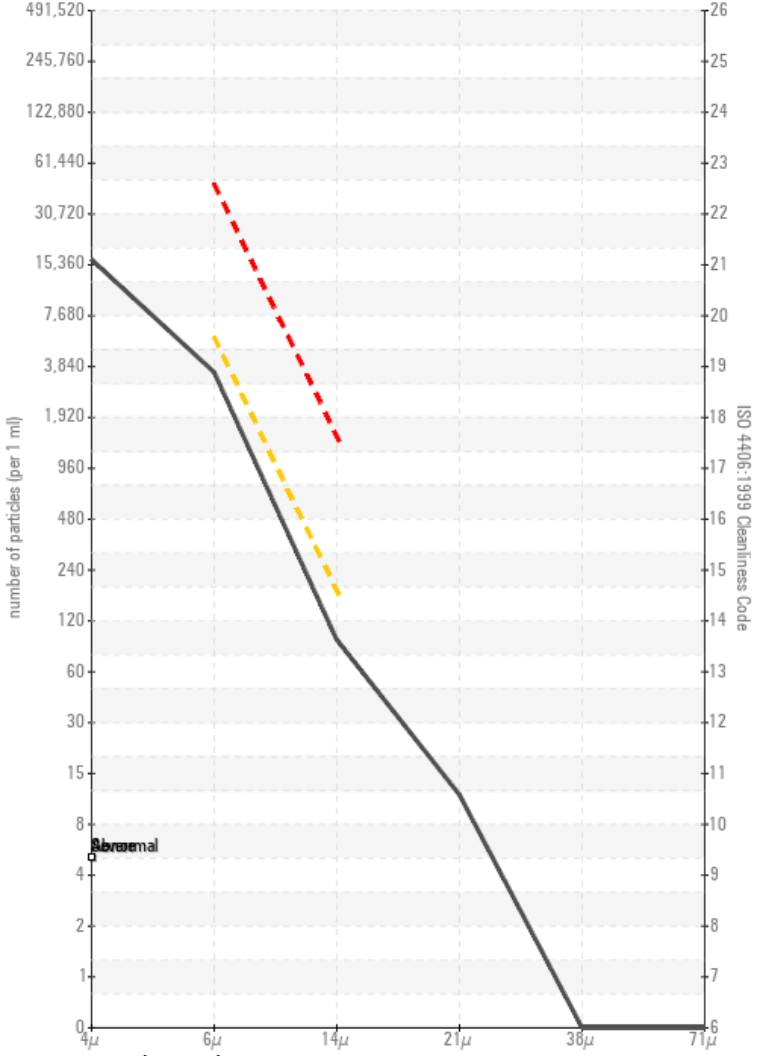
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

