CONSTRUCTION EQUIPMENT
VOLVO A40G 342373 - HYDRAULIC SYSTEM

Sample No: VCP441995
Oil Type: MOBIL 10W
Job No:

SCHILDBERG CONSTRUCTION COMPANY
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GREENFIELD, IA
US 50849
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SAMPLE INFORMATION

Sample Number		**VCP441995**	VCP399413	VCP445739	VCP339741
Sample Date		**10 Jun 2024**	12 Mar 2024	29 Nov 2023	09 Oct 2023
Machine Hours		**13342**	12715	12310	11957
Oil Hours		**1032**	405	1965	1612
Oil Changed		**Not Changd**	Not Changd	Changed	Not Changd
Sample Status		**ATTENTION**	ABNORMAL	ABNORMAL	NORMAL

OIL CONDITION

Visc @ 40°C	cSt	**38.0**	39.5	39.8	39.7
Acid Number (AN)	mg KOH/g	**1.09**	1.12	1.10	1.16

CONTAMINATION

Water	%	**NEG**	NEG	NEG	NEG
Particles >4µm		**15539**	---	27064	11558
Particles >6µm		**4305**	---	7672	2773
Particles >14µm		**198**	---	454	129
ISO 4406:1999 (c)		**21/19/15**	---	22/20/16	21/19/14
Silicon	ppm	**14**	15	16	15
Sodium	ppm	**3**	2	5	4
Potassium	ppm	**0**	0	0	0

WEAR METALS

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

ADDITIVES

Calcium	ppm	**3220**	3170	2877	2873
Magnesium	ppm	**30**	30	26	24
Zinc	ppm	**1054**	1068	1014	1015
Phosphorus	ppm	**928**	888	850	837
Barium	ppm	**0**	0	0	0
Boron	ppm	**0**	3	2	2

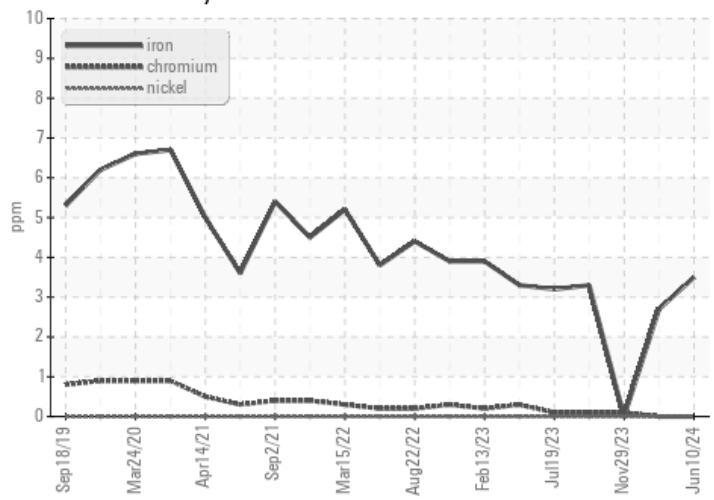
Diagnosis

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

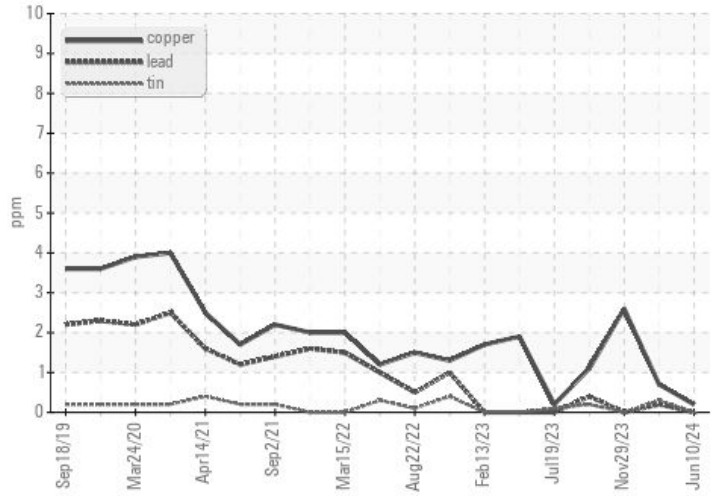
Depot: SCHGRE
Unique No: 11126525
Signed: Jonathan Hester
Report Date: 18 Jul 2024

GRAPHS

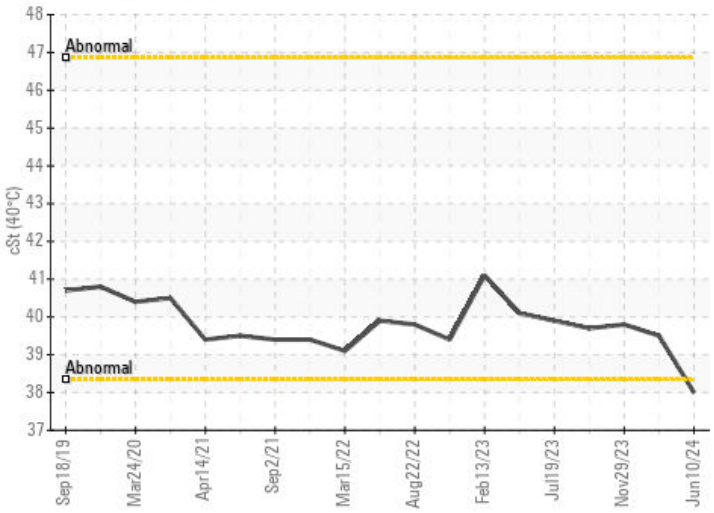
Ferrous Alloys



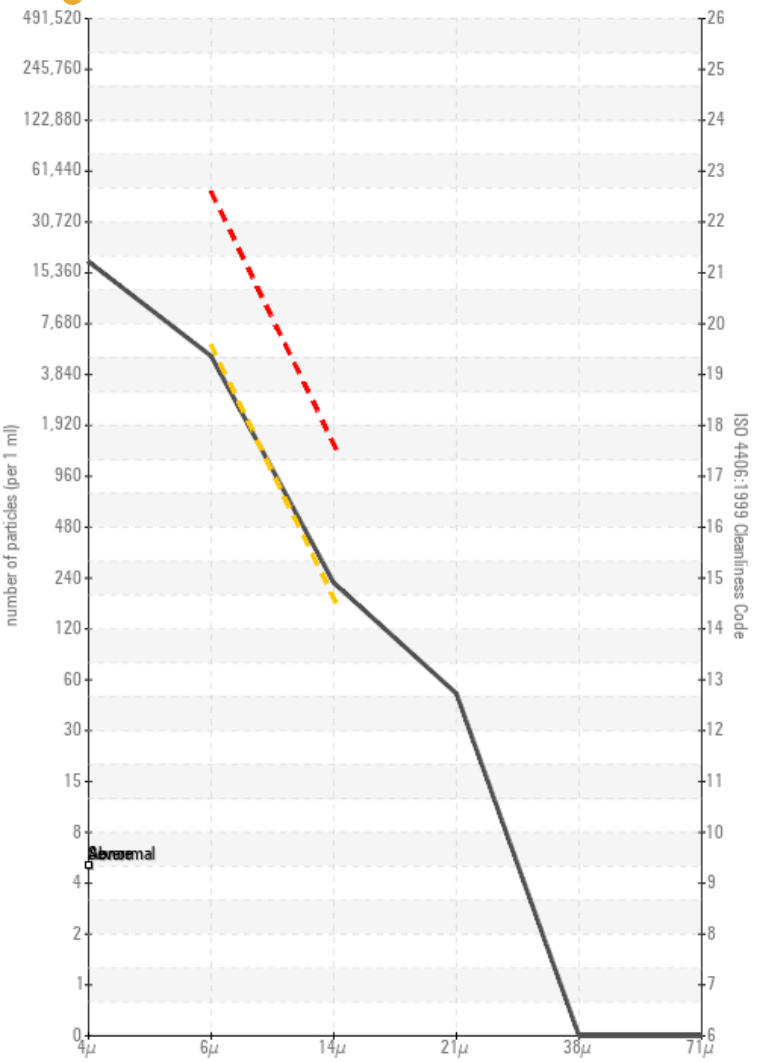
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number