



CONSTRUCTION EQUIPMENT

SWO-065619 VOLVO A45G 353092 - HYDRAULIC SYSTEM



Sample No: VCP431092
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-065619



SAMPLE INFORMATION

Sample Number	VCP431092	VCP407523	VCP395493	VCP384123
Sample Date	19 Sep 2023	09 Jun 2023	23 Feb 2023	26 Oct 2022
Machine Hours	2012	1497	1000	571
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	43.0	43.3	43.3	43.3
Acid Number (AN)	mg KOH/g	0.43	0.44	0.40	0.48

CONTAMINATION

Water	%	---	0.022	---	---
Particles >4µm		2674	2413	2409	4777
Particles >6µm		287	302	614	711
Particles >14µm		11	41	48	36
ISO 4406:1999 (c)		19/15/11	18/15/13	18/16/13	19/17/12
Silicon	ppm	6	6	6	6
Sodium	ppm	0	0	<1	0
Potassium	ppm	2	1	0	<1

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	6	4	2	2
Copper	ppm	2	2	<1	1
Lead	ppm	2	2	<1	1
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	0	0	<1	<1
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	0	0	0	<1
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	53	57	55	54
Magnesium	ppm	0	1	0	<1
Zinc	ppm	476	452	388	451
Phosphorus	ppm	344	331	330	332
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 10660963
Signed: Don Baldrige
Report Date: 26 Sep 2023

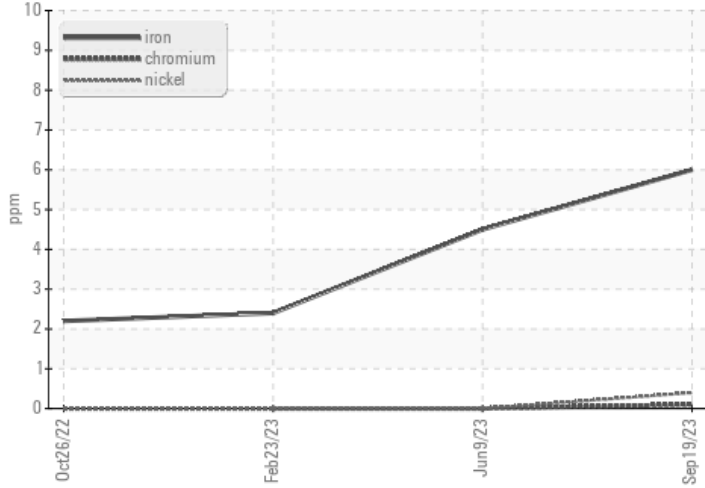


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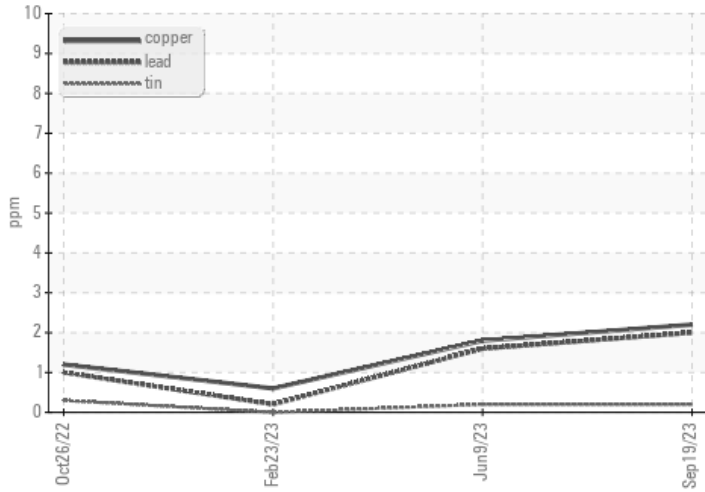


GRAPHS

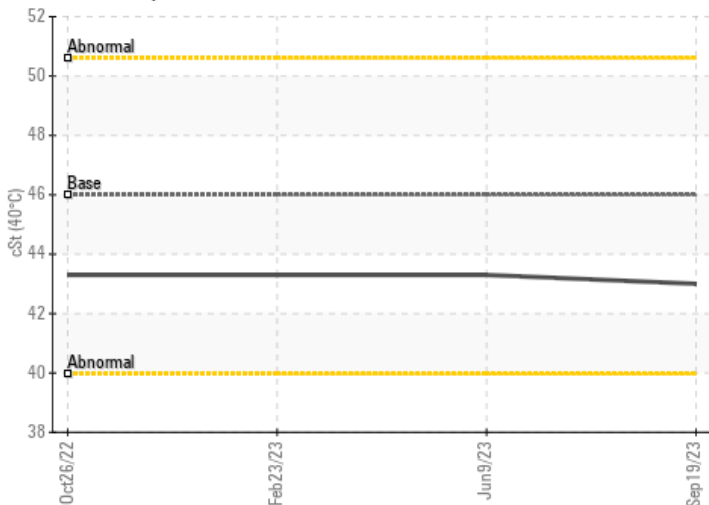
Ferrous Alloys



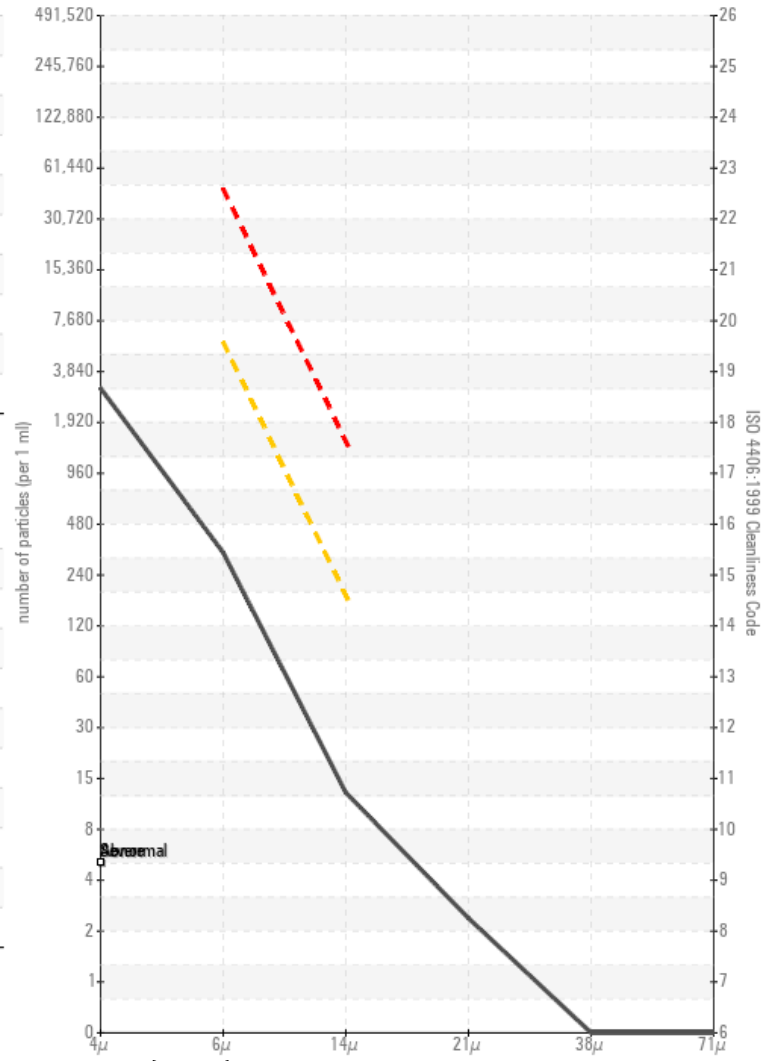
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

