



CONSTRUCTION EQUIPMENT

SWO-064553 VOLVO A45G 352565 - HYDRAULIC SYSTEM



Sample No: VCP417532
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-064553



SAMPLE INFORMATION

Sample Number	VCP417532	VCP412728	VCP402195	VCP406390
Sample Date	31 Jul 2023	31 May 2023	06 Apr 2023	07 Feb 2023
Machine Hours	7625	7148	6710	6181
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	45.0	44.5	44.2	44.0
Acid Number (AN)	mg KOH/g	0.37	0.33	0.38	0.31

CONTAMINATION

Particles >4µm		2378	4192	765	4398
Particles >6µm		267	1083	141	1034
Particles >14µm		10	32	12	57
ISO 4406:1999 (c)		18/15/10	19/17/12	17/14/11	19/17/13
Silicon	ppm	5	4	5	6
Sodium	ppm	3	1	1	0
Potassium	ppm	<1	<1	<1	<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	7	6	4	8
Copper	ppm	2	1	<1	3
Lead	ppm	0	0	<1	2
Tin	ppm	0	0	0	<1
Aluminum	ppm	2	2	<1	1
Chromium	ppm	<1	<1	0	<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	<1	<1	<1	0
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	123	126	121	97
Magnesium	ppm	12	14	11	7
Zinc	ppm	449	471	447	425
Phosphorus	ppm	347	359	365	315
Barium	ppm	0	2	0	1
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 10587930
Signed: Don Baldrige
Report Date: 07 Aug 2023

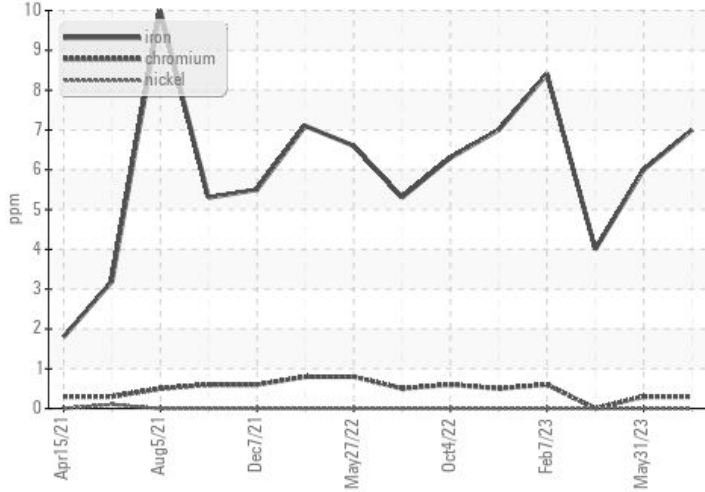


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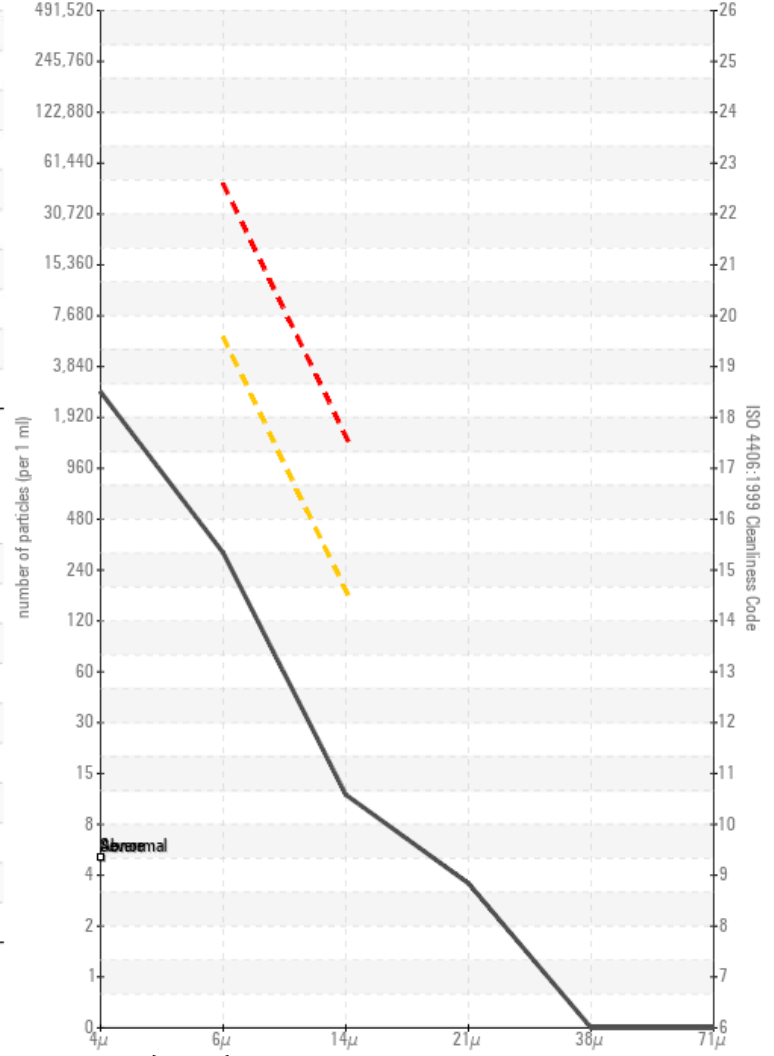


VOLVO GRAPHS

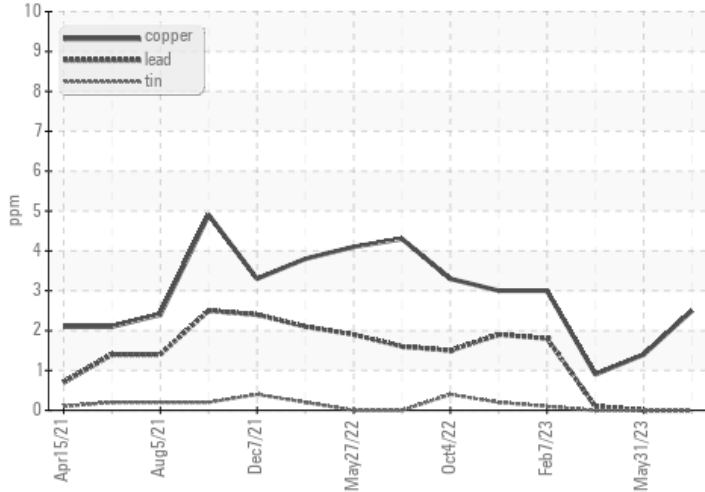
Ferrous Alloys



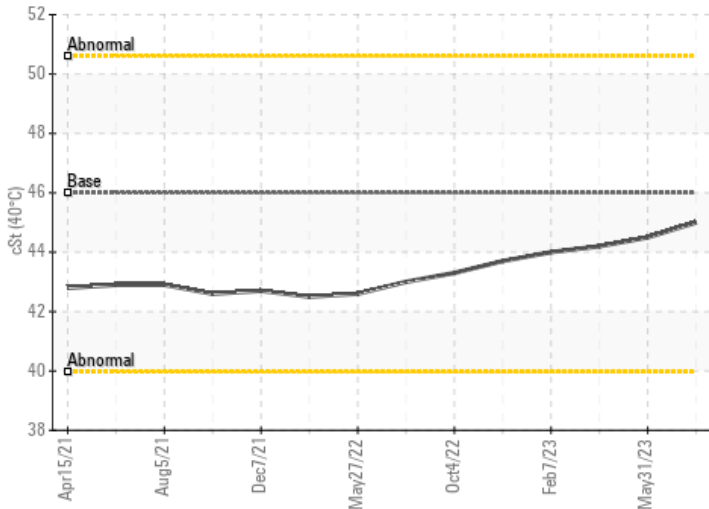
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

