



CONSTRUCTION EQUIPMENT

VOLVO A45G 342096 - HYDRAULIC SYSTEM



Sample No: VCP431027
Oil Type: AW HYDRAULIC OIL ISO 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP431027	VCP427235	VCP404588	VCP392780
Sample Date	13 Nov 2023	22 Aug 2023	08 May 2023	16 Dec 2022
Machine Hours	9583	9107	8608	8113
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	49.8	50.4	51.6	▲ 55.7
Acid Number (AN)	mg KOH/g	0.44	0.54	0.43	0.47

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		283	2058	3248	1303
Particles >6µm		22	651	926	238
Particles >14µm		5	33	50	10
ISO 4406:1999 (c)		15/12/10	18/17/12	19/17/13	18/15/10
Silicon	ppm	4	4	3	2
Sodium	ppm	<1	3	1	2
Potassium	ppm	1	2	0	0

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

WEAR METALS

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

ADDITIVES

Calcium	ppm	207	196	224	282
Magnesium	ppm	65	65	6	19
Zinc	ppm	581	567	538	543
Phosphorus	ppm	468	445	412	407
Barium	ppm	0	0	0	0
Boron	ppm	3	2	3	0

Depot: SAIBIR
Unique No: 10754147
Signed: Don Baldrige
Report Date: 26 Nov 2023

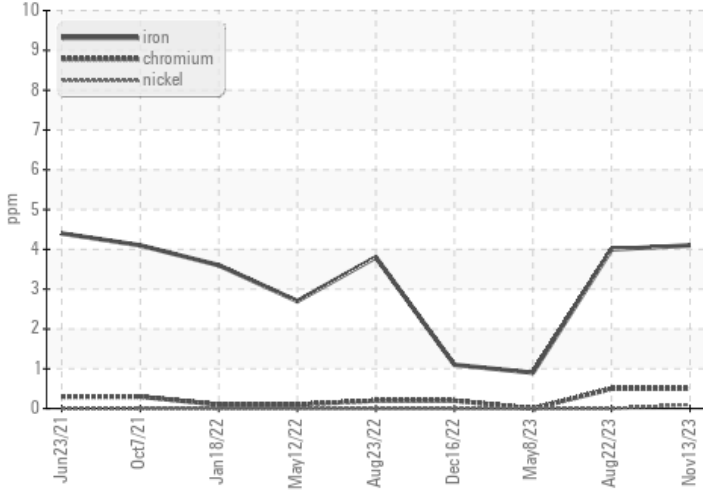


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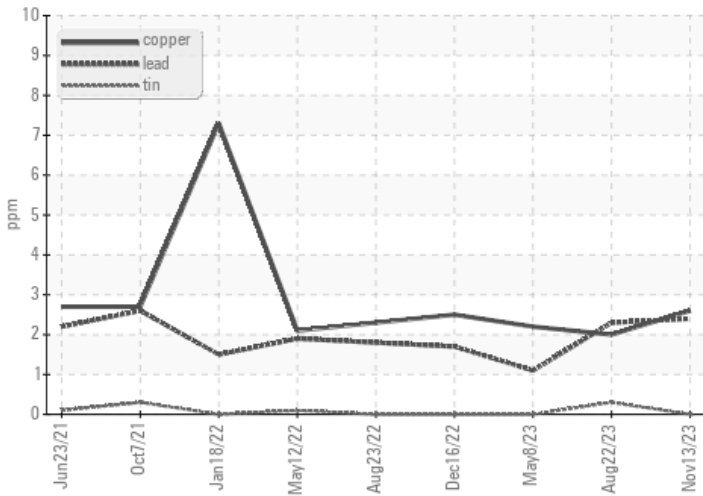


GRAPHS

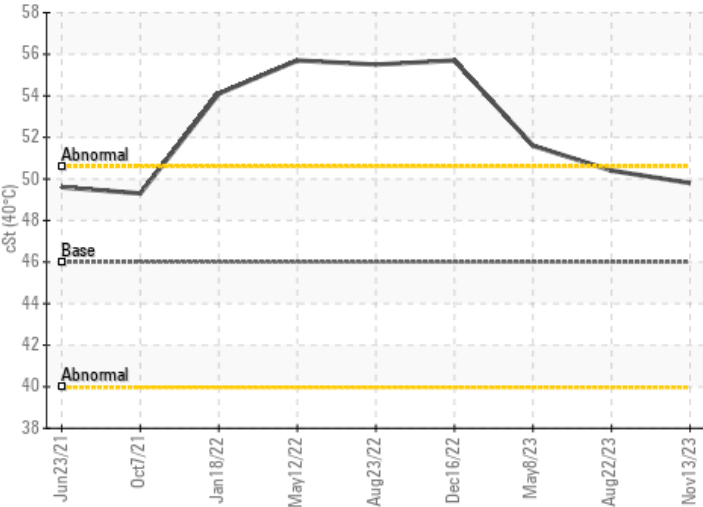
Ferrous Alloys



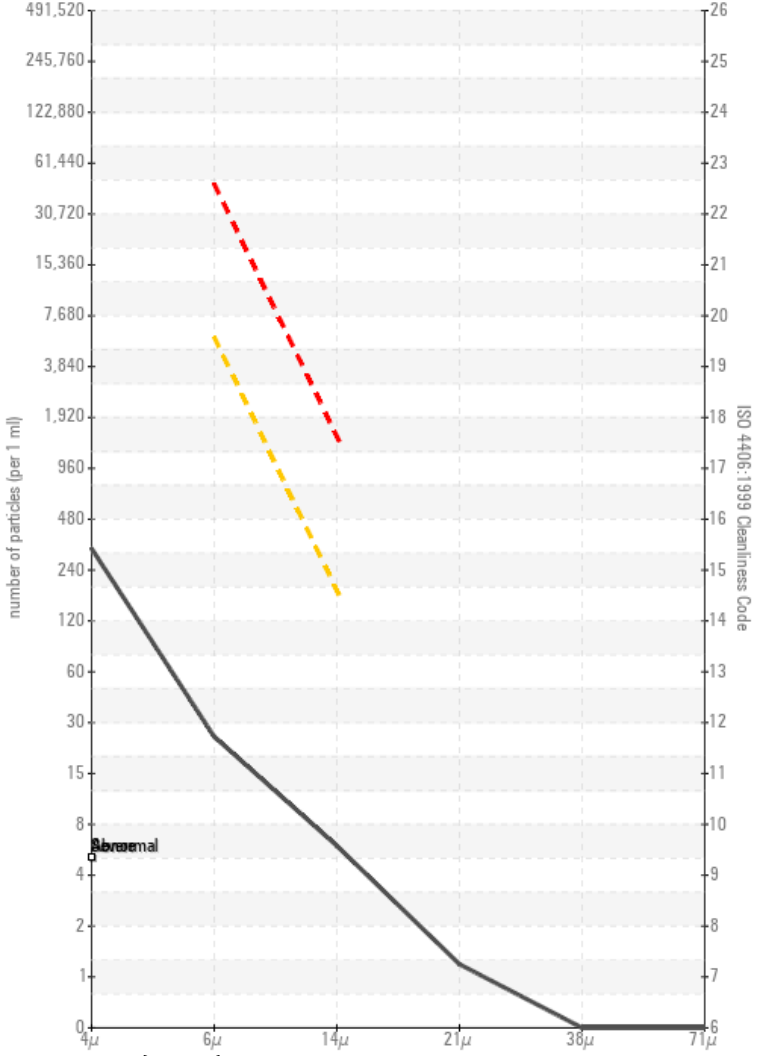
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

