



CONSTRUCTION EQUIPMENT

SWO-064954 VOLVO A45G 342096 - HYDRAULIC SYSTEM



Sample No: VCP427235
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-064954



SAMPLE INFORMATION

Sample Number	VCP427235	VCP404588	VCP392780	VCP337676
Sample Date	22 Aug 2023	08 May 2023	16 Dec 2022	23 Aug 2022
Machine Hours	9107	8608	8113	7528
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Changed	Not Changd
Sample Status	NORMAL	NORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	50.4	51.6	▲ 55.7	▲ 55.5
Acid Number (AN)	mg KOH/g	0.54	0.43	0.47	0.46



CONTAMINATION

Particles >4µm		2058	3248	1303	4097
Particles >6µm		651	926	238	1085
Particles >14µm		33	50	10	74
ISO 4406:1999 (c)		18/17/12	19/17/13	18/15/10	19/17/13
Silicon	ppm	4	3	2	3
Sodium	ppm	3	1	2	2
Potassium	ppm	2	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	4	<1	1	4
Copper	ppm	2	2	2	2
Lead	ppm	2	1	2	2
Tin	ppm	<1	0	0	0
Aluminum	ppm	1	<1	<1	<1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	2	1	1	2
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	0	0
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	196	224	282	285
Magnesium	ppm	65	6	19	18
Zinc	ppm	567	538	543	540
Phosphorus	ppm	445	412	407	403
Barium	ppm	0	0	0	<1
Boron	ppm	2	3	0	0

Depot: SAIBIR
Unique No: 10622455
Signed: Don Baldrige
Report Date: 30 Aug 2023

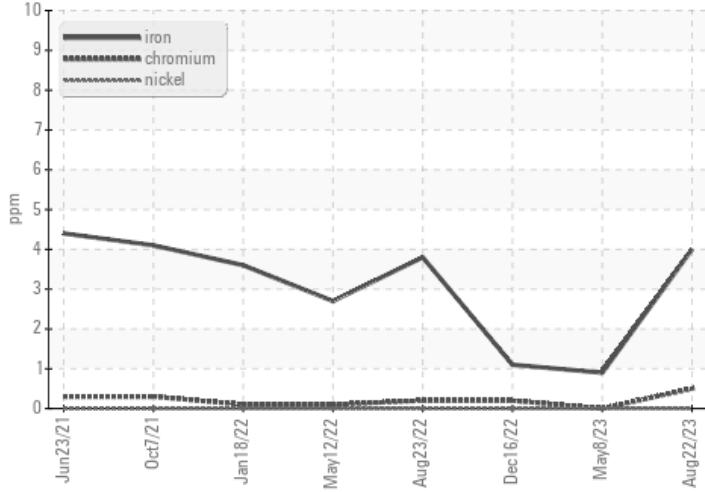


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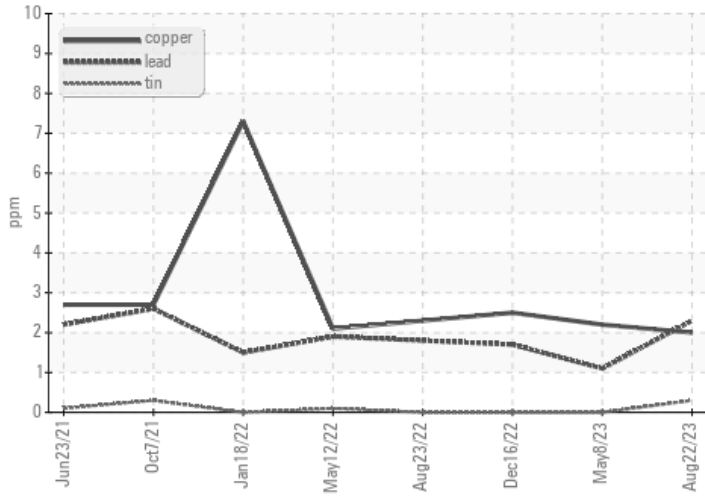


GRAPHS

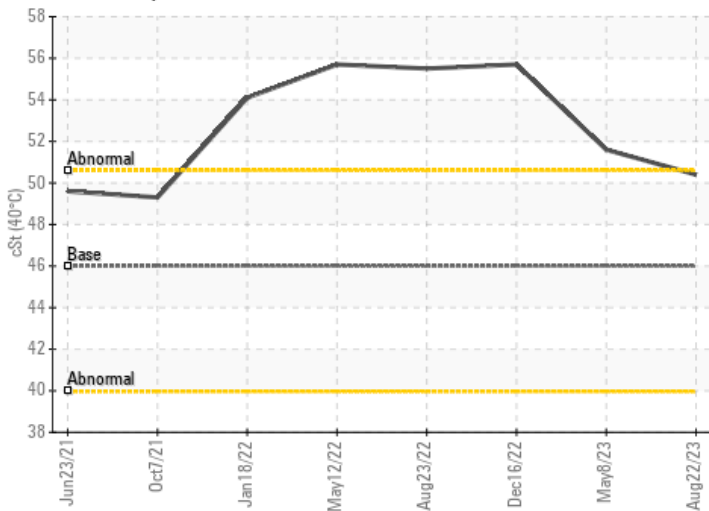
Ferrous Alloys



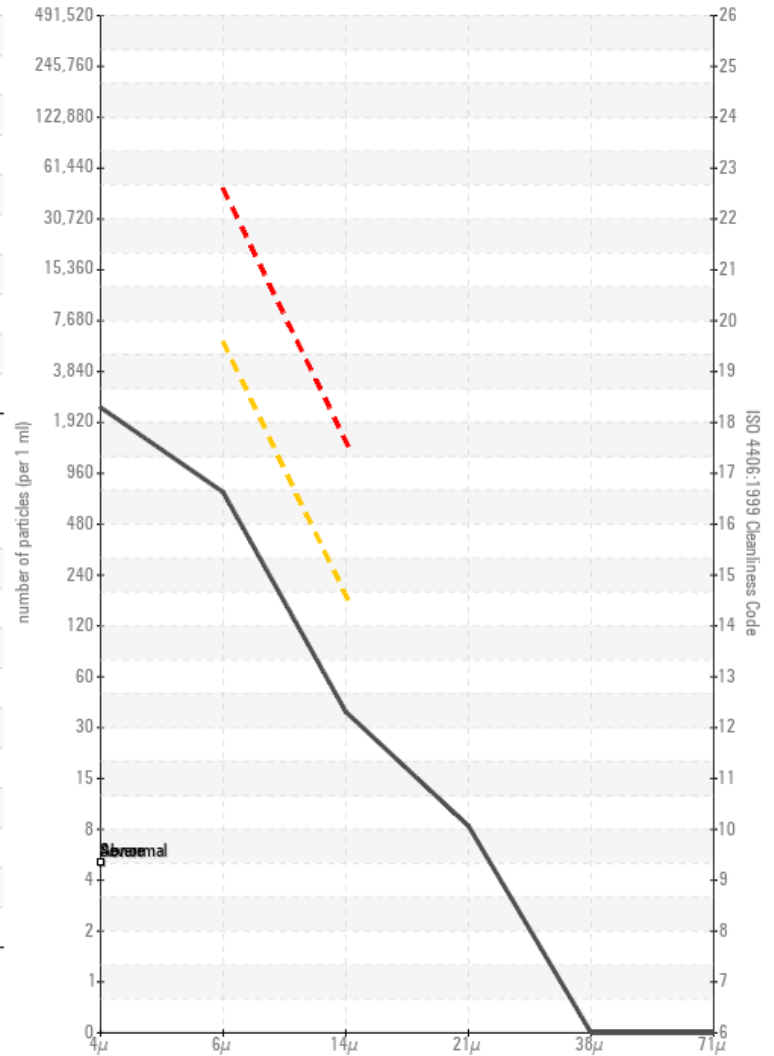
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

