



CONSTRUCTION EQUIPMENT

SWO-063459 VOLVO A45G 342067 - HYDRAULIC SYSTEM



Sample No: VCP424306
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-063459



SAMPLE INFORMATION

Sample Number	VCP424306	VCP393611	VCP367334	VCP366306
Sample Date	22 Jun 2023	14 Feb 2023	03 Nov 2022	04 Aug 2022
Machine Hours	6450	5835	5435	4970
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	ATTENTION	ABNORMAL	NORMAL	NORMAL

WHITAKER CONTRACTING
 692 CONVICT CAMP RD
 GUNTERVILLE, AL
 US 35976
 Contact: BROTHER WHITAKER
 BrotherWhitaker@whitaker-contracting.com
 T: (256)298-3905
 F:



OIL CONDITION

Visc @ 40°C	cSt	42.8	43.1	43.5	43.2
Acid Number (AN)	mg KOH/g	0.34	0.31	0.34	0.33



CONTAMINATION

Particles >4µm		21227	2087	3546	2022
Particles >6µm		6558	504	926	261
Particles >14µm		318	30	85	11
ISO 4406:1999 (c)		22/20/15	18/16/12	19/17/14	18/15/11
Silicon	ppm	8	6	5	5
Sodium	ppm	4	1	<1	0
Potassium	ppm	2	0	1	1

Diagnosis
 Oil and 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 acceptable for the time in service.



WEAR METALS

Iron	ppm	12	10	11	10
Copper	ppm	8	7	7	7
Lead	ppm	3	2	3	3
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	1	2	2	3
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	1	<1	1	1
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	140	139	135	137
Magnesium	ppm	21	14	16	15
Zinc	ppm	426	424	438	435
Phosphorus	ppm	338	330	328	332
Barium	ppm	<1	0	2	0
Boron	ppm	1	0	3	5

Depot: WHIGUN
Unique No: 10536046
Signed: Angela Borella
Report Date: 30 Jun 2023

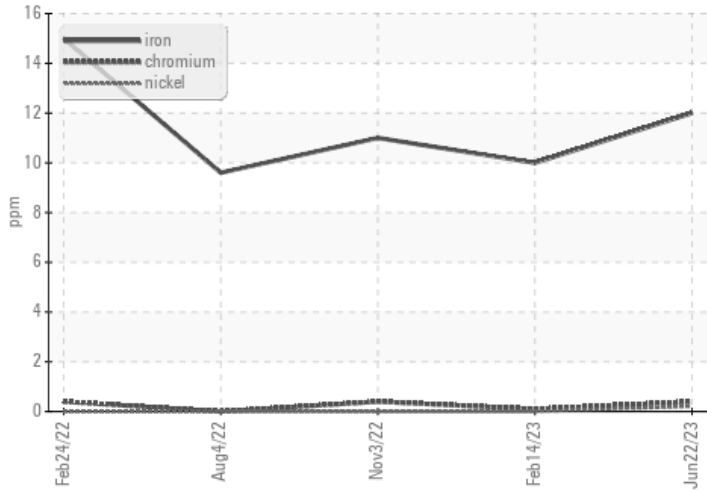


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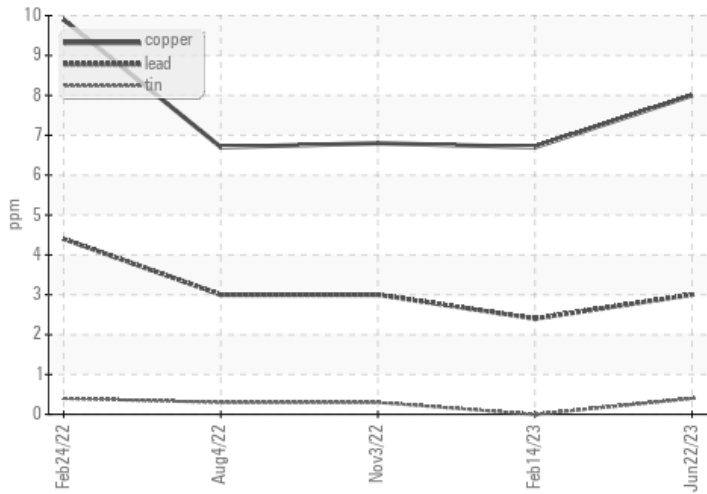


GRAPHS

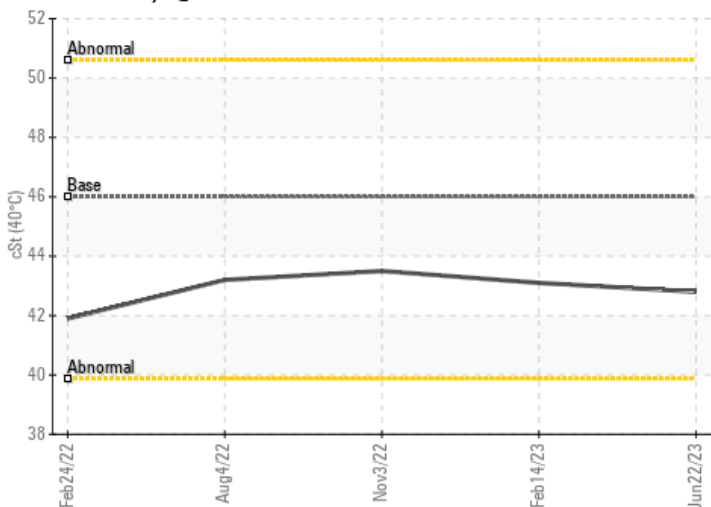
Ferrous Alloys



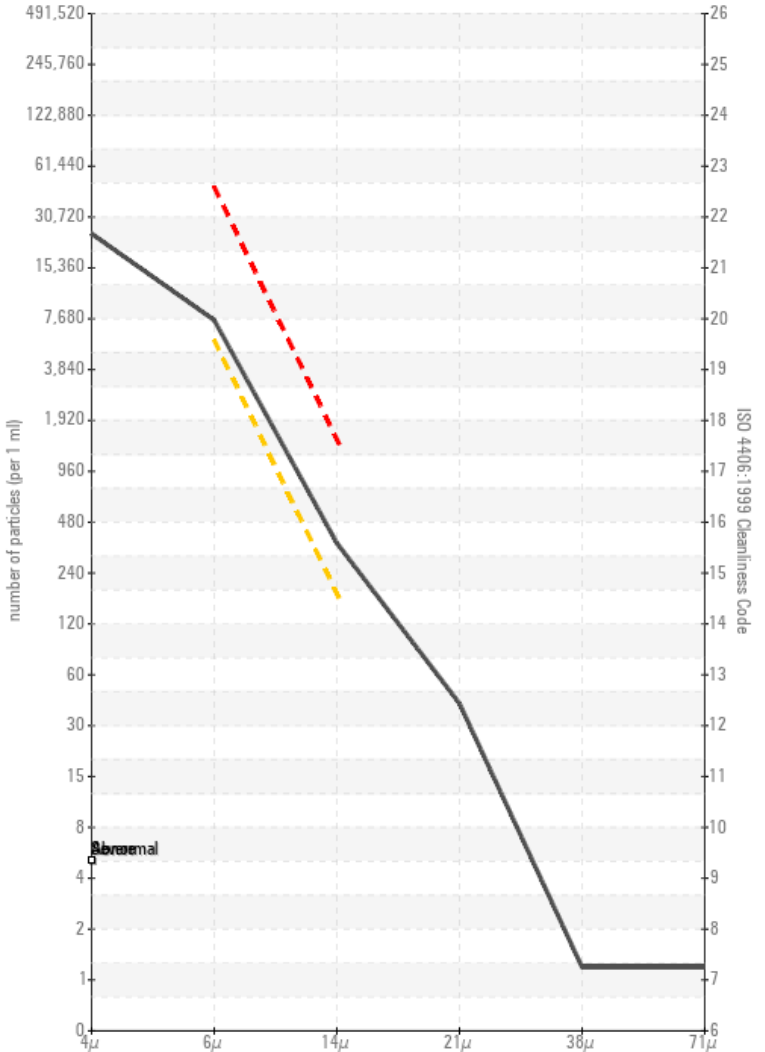
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

