



CONSTRUCTION EQUIPMENT

SWA288432 VOLVO A45G 352411 - HYDRAULIC SYSTEM



Sample No: VCP427062
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWA288432



SAMPLE INFORMATION

Sample Number	VCP427062	VCP377165	VCP317691	VCP292510
Sample Date	19 Jun 2023	30 Apr 2022	17 Jul 2021	10 Dec 2020
Machine Hours	5591	3478	2213	1162
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ORANGE COUNTY SOLID WASTE
 5901 YOUNG PINE ROAD
 ORLANDO, FL
 US 32829
 Contact: MICHAEL BEEBE
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 F: (407)836-6650



OIL CONDITION

Visc @ 40°C	cSt	41.4	41.6	41.8	45.1
Acid Number (AN)	mg KOH/g	0.39	0.41	0.385	0.408



CONTAMINATION

Particles >4µm		730	522	625	2007
Particles >6µm		185	128	132	509
Particles >14µm		15	14	11	42
ISO 4406:1999 (c)		17/15/11	16/14/11	16/14/11	18/16/13
Silicon	ppm	6	4	3	4
Sodium	ppm	4	2	2	1
Potassium	ppm	2	0	0	3

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	9	4	2	3
Copper	ppm	3	2	2	2
Lead	ppm	4	3	2	2
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	0	<1	0	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	1	<1	0	0
Nickel	ppm	0	0	0	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	0	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	94	88	45	55
Magnesium	ppm	11	4	<1	1
Zinc	ppm	402	404	409	438
Phosphorus	ppm	317	328	317	341
Barium	ppm	<1	0	0	0
Boron	ppm	0	3	<1	0

Depot: ORAORL
Unique No: 10536043
Signed: Angela Borella
Report Date: 30 Jun 2023

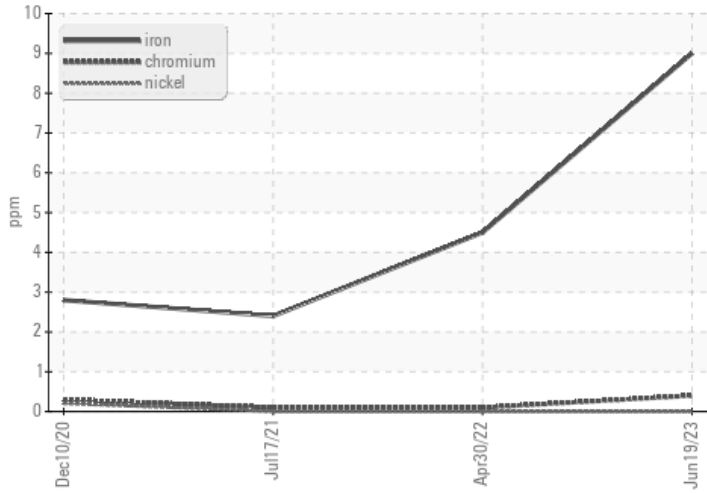


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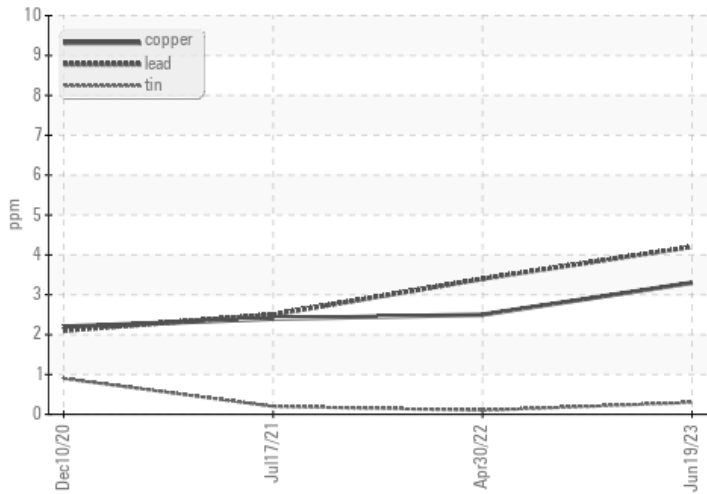


GRAPHS

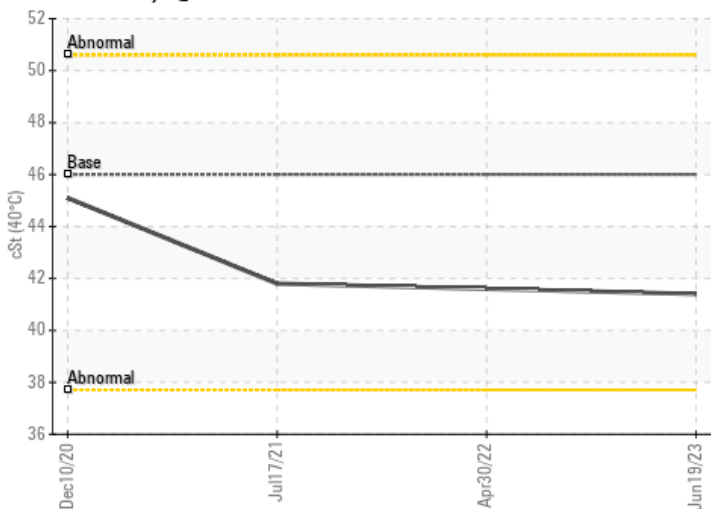
Ferrous Alloys



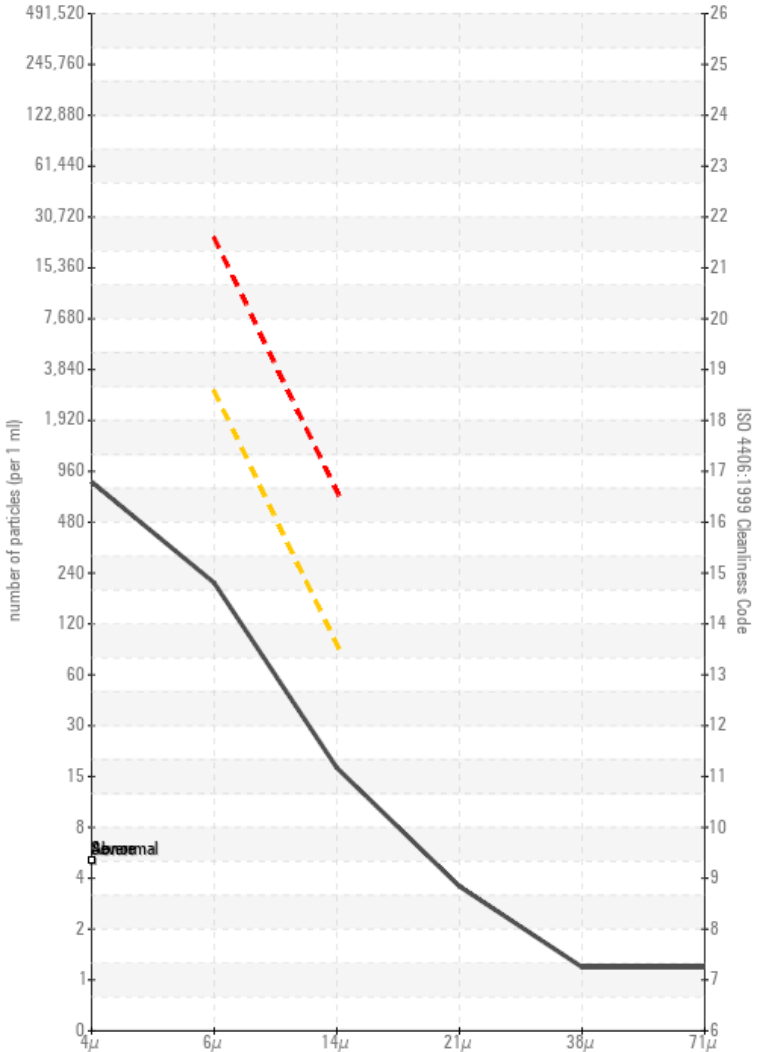
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

