



CONSTRUCTION EQUIPMENT

SWA559244-10 VOLVO EC220E 314027 - HYDRAULIC SYSTEM



Sample No: VCP416990
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWA559244-10



SAMPLE INFORMATION

Sample Number	VCP416990	VCP407391	VCP323024	VCP303776
Sample Date	05 Jun 2024	27 Apr 2023	21 Sep 2021	15 Apr 2021
Machine Hours	8200	6997	4100	3159
Oil Hours	4000	0	2000	3000
Oil Changed	Changed	Not Changd	Changed	Not Changd
Sample Status	ABNORMAL	ABNORMAL	NORMAL	ABNORMAL

ULSTER COUNTY RESOURCE RECOVERY AGENCY
 999 FLATBUSH AVE
 KINGSTON, NY
 US 12401
 Contact: CHARLES WHITTAKER
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 T: (845)399-2686
 F:



OIL CONDITION

Visc @ 40°C	cSt	36.8	38.6	42.3	43.4
Acid Number (AN)	mg KOH/g	0.21	0.30	0.616	0.473



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		54728	77406	6487	---
Particles >6µm		8796	982	1209	---
Particles >14µm		770	50	95	---
ISO 4406:1999 (c)		23/20/17	23/17/13	20/17/14	---
Silicon	ppm	11	10	6	5
Sodium	ppm	8	6	2	3
Potassium	ppm	6	3	2	2

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The iron level is abnormal. All other component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present 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	10	10	6	5
Copper	ppm	25	27	30	26
Lead	ppm	0	0	<1	1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	4	3	6	1
Chromium	ppm	19	28	3	3
Molybdenum	ppm	9	5	0	0
Nickel	ppm	<1	0	0	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	746	582	86	90
Magnesium	ppm	81	40	1	2
Zinc	ppm	479	390	469	504
Phosphorus	ppm	413	345	375	431
Barium	ppm	1	0	0	0
Boron	ppm	21	9	0	3

Depot: ULSKIN
Unique No: 11071980
Signed: Angela Borella
Report Date: 12 Jun 2024

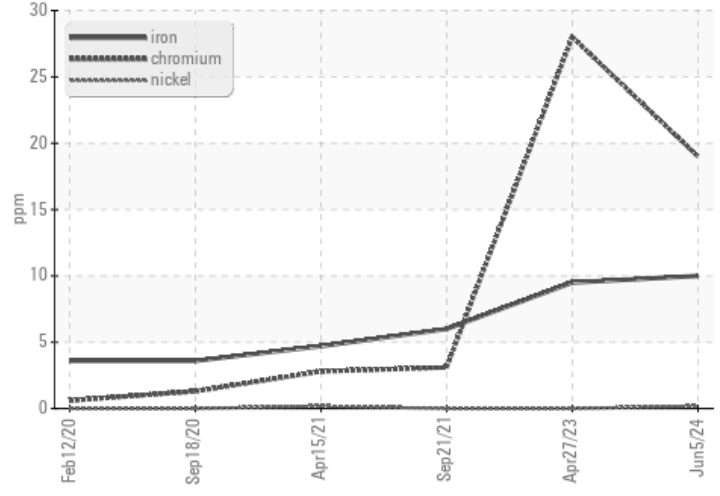


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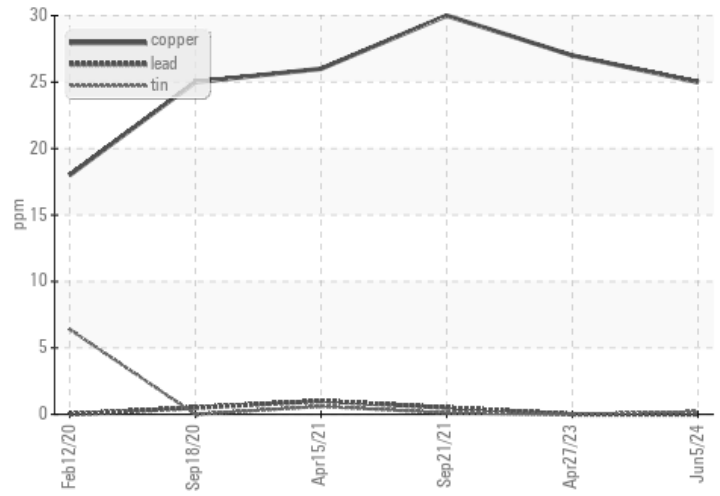


GRAPHS

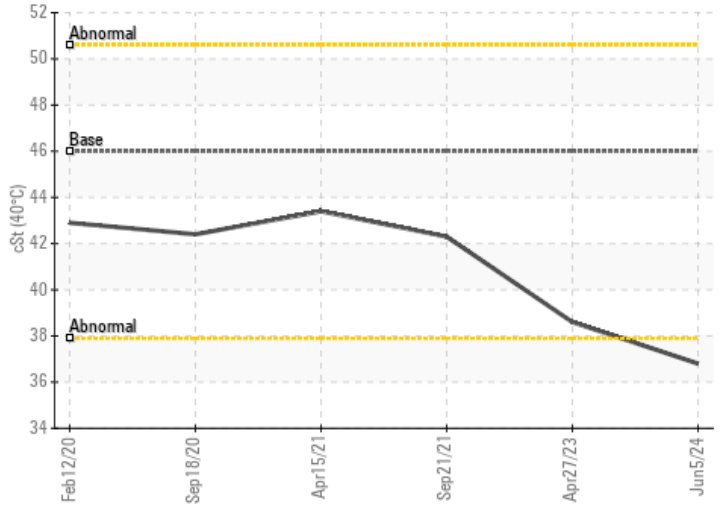
▲ Ferrous Alloys



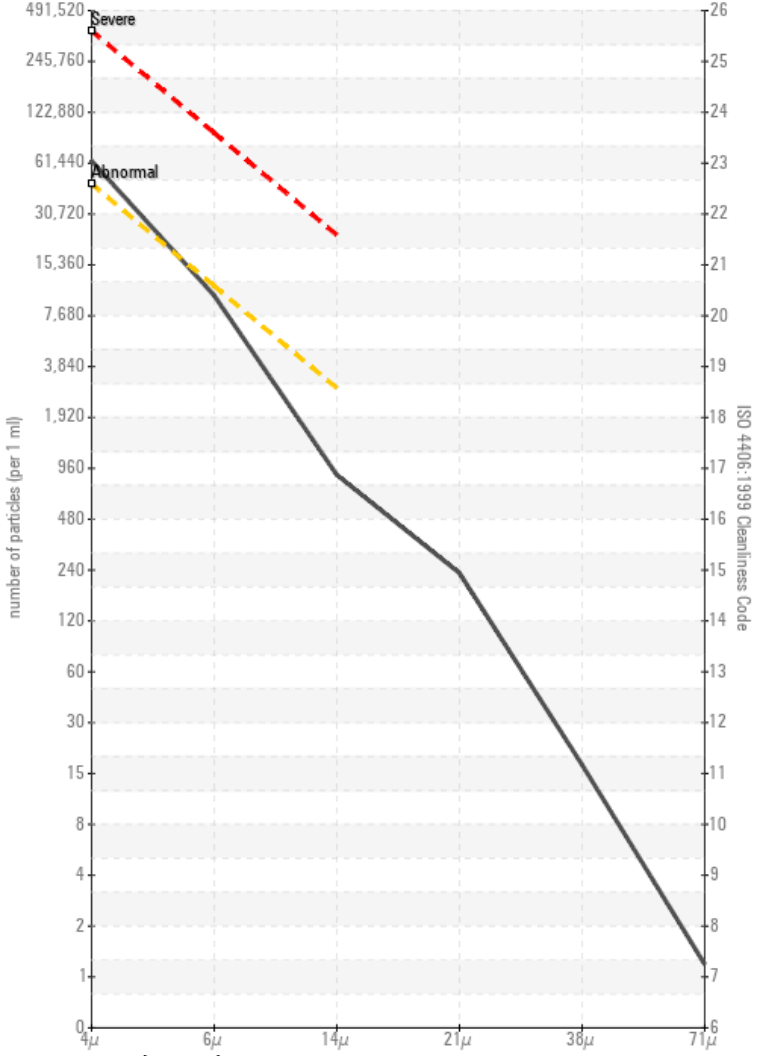
Non-ferrous Metals



Viscosity @ 40°C



● Particle Count



Acid Number

