



CONSTRUCTION EQUIPMENT

A12681 VOLVO ECR235CL 110022 - HYDRAULIC SYSTEM



Sample No: VCP454453
Oil Type: MOBIL HYDRAULIC OIL AW 46
Job No: A12681



SAMPLE INFORMATION

Sample Number	VCP454453	VCP363934	VCP339385	VCP229018
Sample Date	16 May 2024	26 Aug 2022	07 Dec 2021	23 Jul 2018
Machine Hours	10505	9785	9125	6740
Oil Hours	500	2000	1500	500
Oil Changed	Not Chngd	Changed	Not Chngd	Not Chngd
Sample Status	ATTENTION	ABNORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	43.4	44.0	39.7	38.8
Acid Number (AN)	mg KOH/g	1.04	0.77	0.558	0.507

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		22045	106816	14557	17521
Particles >6µm		4254	6033	3715	3536
Particles >14µm		248	14	242	207
ISO 4406:1999 (c)		22/19/15	24/20/11	21/19/15	21/19/15
Silicon	ppm	9	15	5	4
Sodium	ppm	2	5	2	2
Potassium	ppm	0	0	1	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. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

WEAR METALS

Iron	ppm	5	16	12	7
Copper	ppm	4	9	13	8
Lead	ppm	0	<1	<1	0
Tin	ppm	0	<1	0	0
Aluminum	ppm	<1	3	2	1
Chromium	ppm	2	6	10	10
Molybdenum	ppm	2	7	<1	<1
Nickel	ppm	0	0	0	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1910	1938	459	492
Magnesium	ppm	32	41	9	11
Zinc	ppm	1053	992	644	636
Phosphorus	ppm	851	808	499	493
Barium	ppm	0	0	0	0
Boron	ppm	73	80	3	9

Depot: JAAPHI
Unique No: 11048875
Signed: Angela Borella
Report Date: 30 May 2024

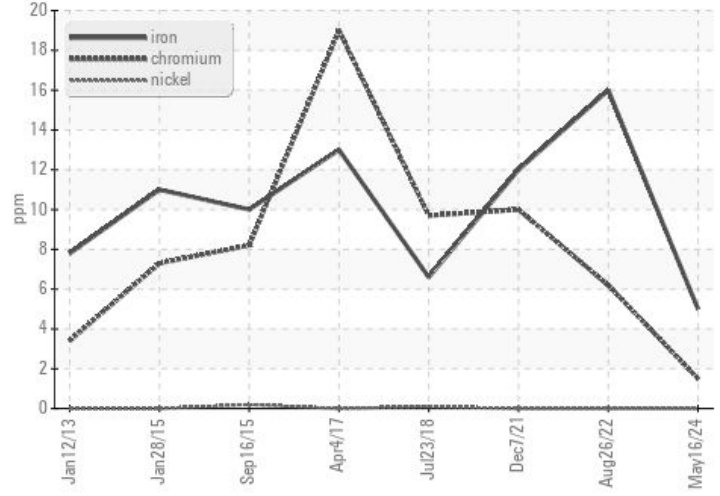


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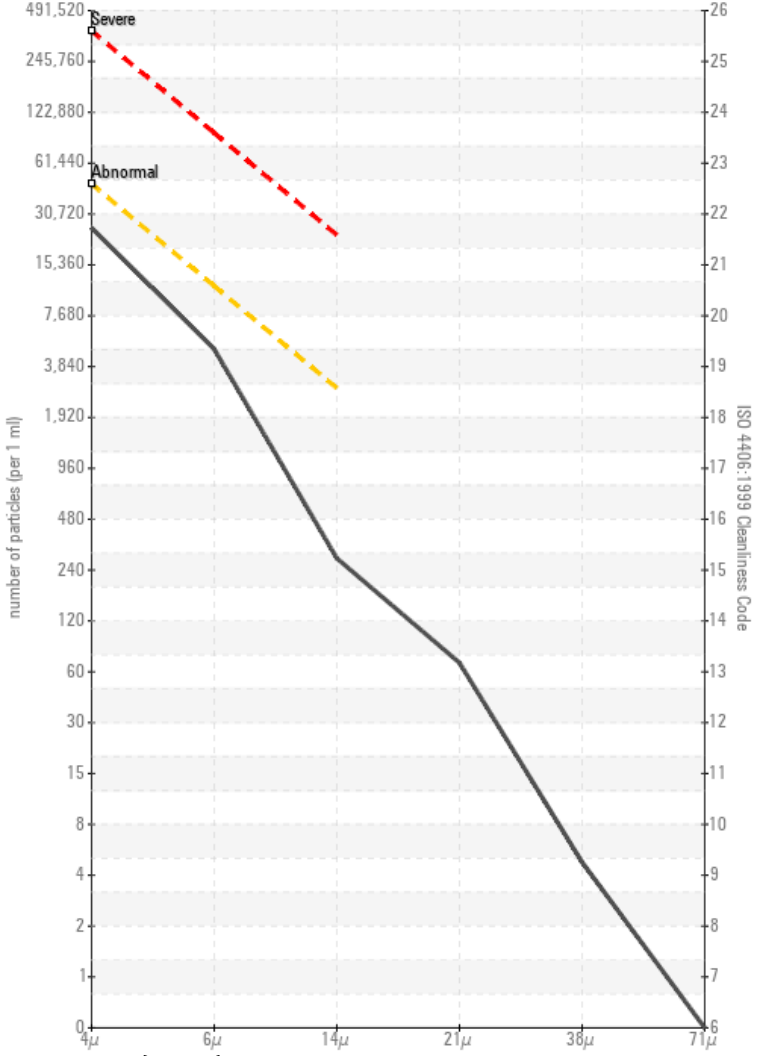


GRAPHS

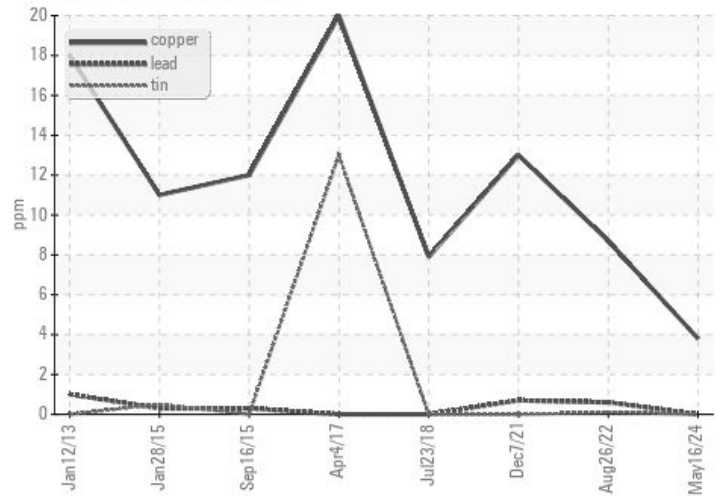
Ferrous Alloys



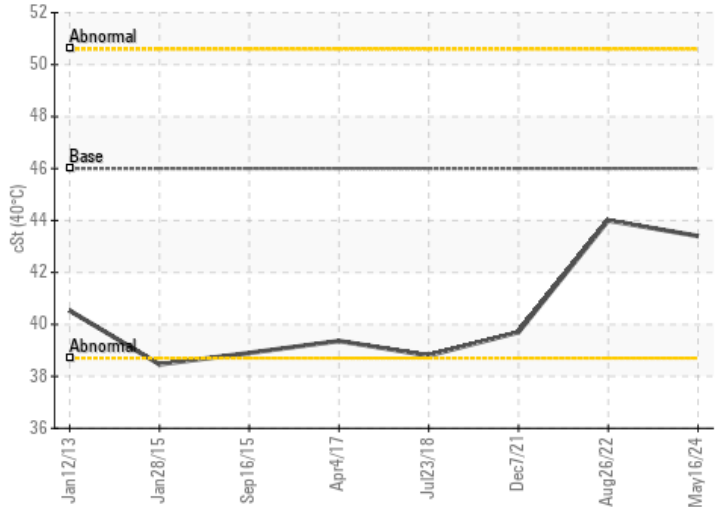
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

