



CONSTRUCTION EQUIPMENT

ATLAS ORGANICS VOLVO EC220EL 314469 - HYDRAULIC SYSTEM



Sample No: VCP441732
Oil Type: VOLVO HYDRAULIC OIL ULTRA 46
Job No: ATLAS ORGANICS



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SAMPLE INFORMATION

Sample Number	VCP441732	VCP425014	VCP354447	---
Sample Date	20 Feb 2024	15 Aug 2023	07 Jul 2022	---
Machine Hours	1497	931	334	---
Oil Hours	0	0	333	---
Oil Changed	Not Chngd	Not Chngd	N/A	---
Sample Status	NORMAL	NORMAL	NORMAL	---



OIL CONDITION

Visc @ 40°C	cSt	42.4	42.6	43.4	---
Acid Number (AN)	mg KOH/g	0.45	0.49	0.50	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		3974	13465	5785	---
Particles >6µm		450	2021	845	---
Particles >14µm		16	139	115	---
ISO 4406:1999 (c)		19/16/11	21/18/14	20/17/14	---
Silicon	ppm	5	5	4	---
Sodium	ppm	1	1	<1	---
Potassium	ppm	0	0	<1	---



WEAR METALS

Iron	ppm	2	3	2	---
Copper	ppm	31	27	18	---
Lead	ppm	<1	<1	<1	---
Tin	ppm	0	0	0	---
Aluminum	ppm	0	<1	<1	---
Chromium	ppm	<1	0	0	---
Molybdenum	ppm	0	0	0	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	0	0	---
Vanadium	ppm	0	<1	0	---



ADDITIVES

Calcium	ppm	61	62	70	---
Magnesium	ppm	<1	<1	1	---
Zinc	ppm	485	479	501	---
Phosphorus	ppm	379	391	383	---
Barium	ppm	0	0	0	---
Boron	ppm	0	0	3	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot: VOLVO0093
Unique No: 11018629
Signed: Don Baldrige
Report Date: 10 May 2024

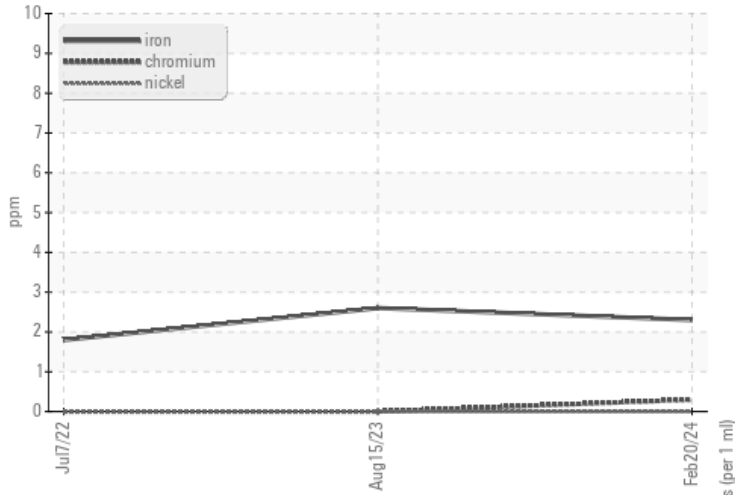


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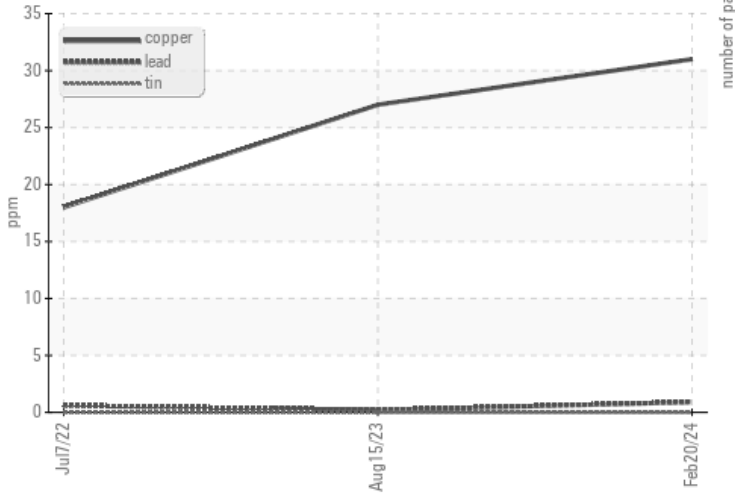


GRAPHS

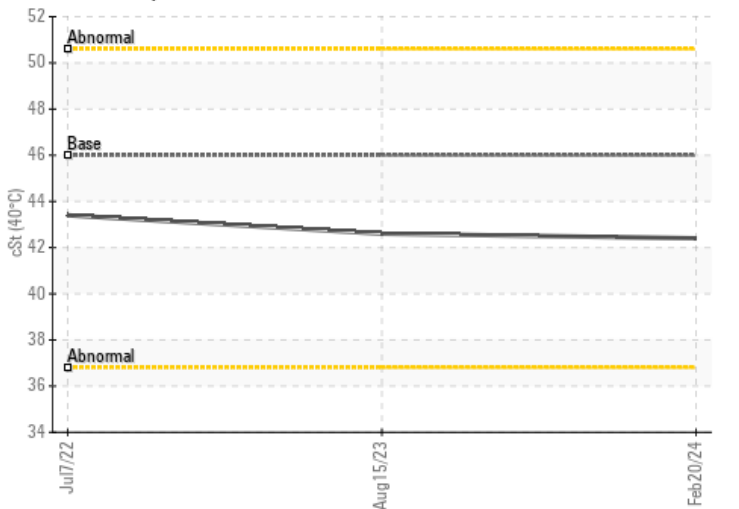
Ferrous Alloys



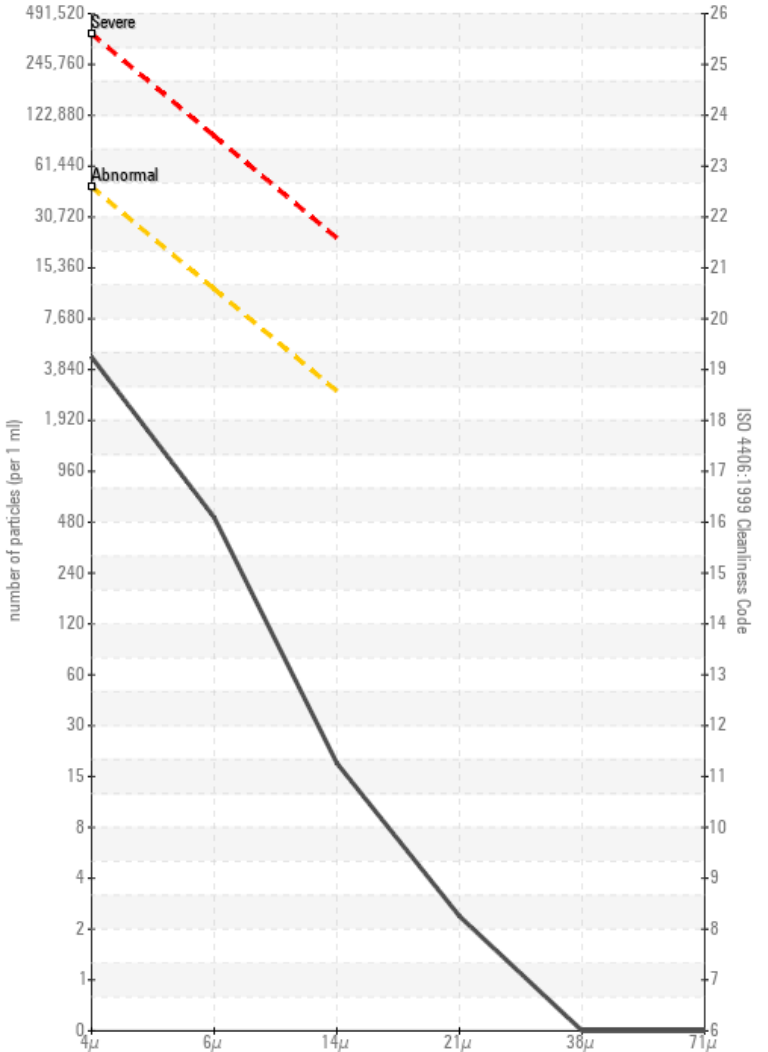
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

