



CONSTRUCTION EQUIPMENT

SPM701371 VOLVO ECR235EL 310702 - HYDRAULIC SYSTEM



Sample No: VCP443531
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM701371



SAMPLE INFORMATION

Sample Number	VCP443531	VCP350726	VCP336214	---
Sample Date	12 Apr 2024	02 Mar 2022	20 Sep 2021	---
Machine Hours	4256	3512	3476	---
Oil Hours	0	0	0	---
Oil Changed	Not Chngd	Not Chngd	Changed	---
Sample Status	NORMAL	NORMAL	ABNORMAL	---

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 5000 INDUSTRIAL HWY
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 F:



OIL CONDITION

Visc @ 40°C	cSt	44.7	41.2	39.4	---
Acid Number (AN)	mg KOH/g	0.22	0.49	0.651	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		17664	1843	---	---
Particles >6µm		5076	329	---	---
Particles >14µm		198	15	---	---
ISO 4406:1999 (c)		21/20/15	18/16/11	---	---
Silicon	ppm	<1	6	8	---
Sodium	ppm	2	0	2	---
Potassium	ppm	2	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.



WEAR METALS

Iron	ppm	0	4	11	---
Copper	ppm	<1	24	36	---
Lead	ppm	<1	0	<1	---
Tin	ppm	<1	0	0	---
Aluminum	ppm	0	3	2	---
Chromium	ppm	0	0	<1	---
Molybdenum	ppm	0	2	1	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	<1	---
Manganese	ppm	<1	0	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	49	524	838	---
Magnesium	ppm	2	5	9	---
Zinc	ppm	388	577	697	---
Phosphorus	ppm	313	538	570	---
Barium	ppm	0	0	0	---
Boron	ppm	0	1	6	---

Depot: VOLVO8885
Unique No: 10989714
Signed: Wes Davis
Report Date: 22 Apr 2024

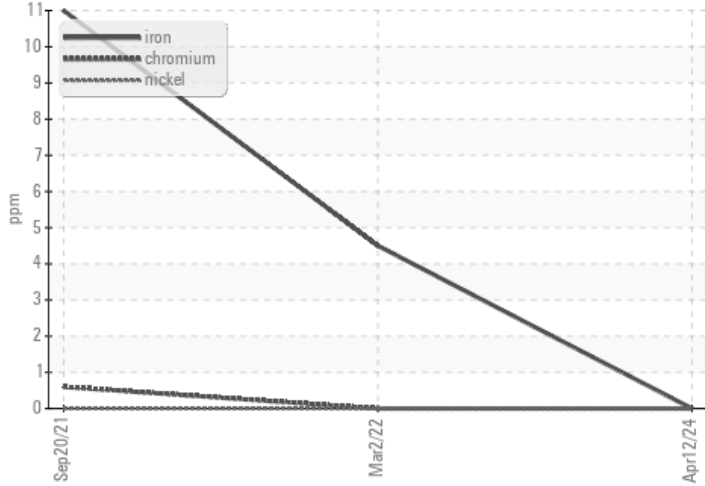


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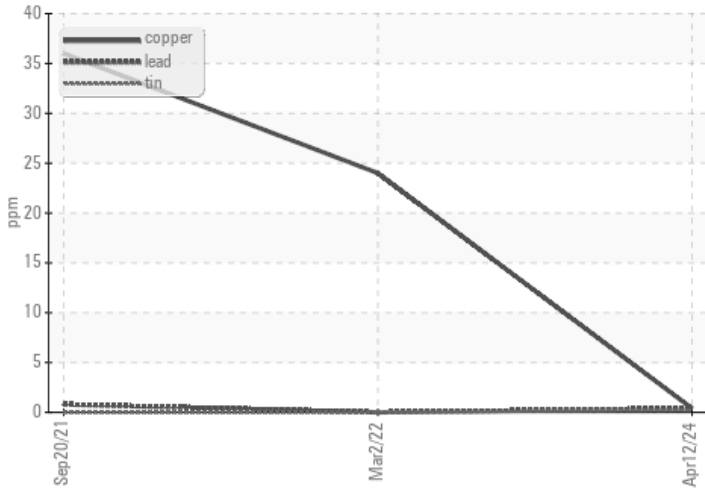


VOLVO GRAPHS

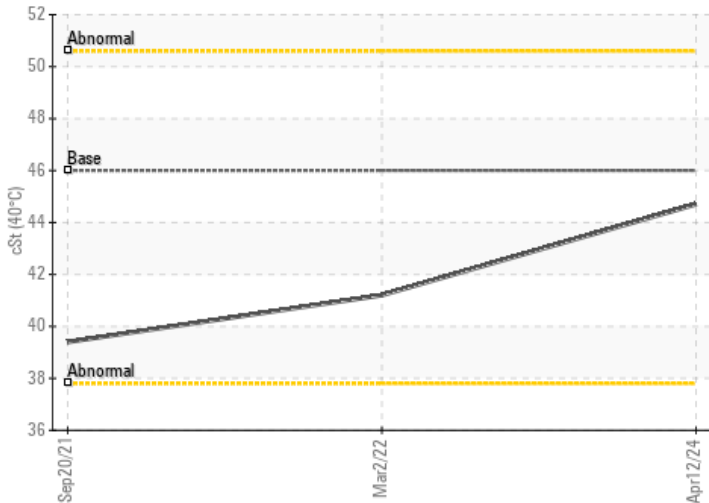
Ferrous Alloys



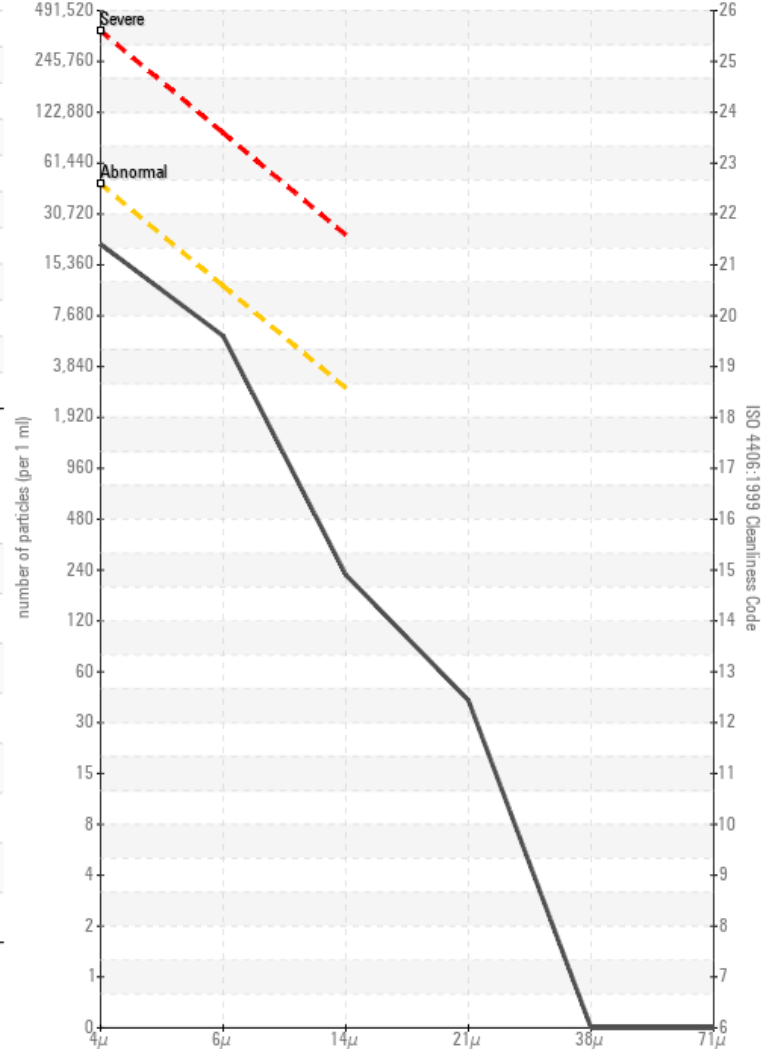
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

