CONSTRUCTION EQUIPMENT

SW1027501 VOLVO ECR145E 311495 - HYDRAULIC SYSTEM

Sample No: VCP435875
Oil Type: NOT GIVEN
Job No: SW1027501

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SAMPLE INFORMATION

Sample Number		**VCP435875**	VCP261366	---	---
Sample Date		**08 Dec 2023**	08 Nov 2019	---	---
Machine Hours		**2111**	551	---	---
Oil Hours		**0**	0	---	---
Oil Changed		**Changed**	Not Changd	---	---
Sample Status		**NORMAL**	NORMAL	---	---

OIL CONDITION

Visc @ 40°C	cSt	**39.2**	41.8	---	---
Acid Number (AN)	mg KOH/g	**0.45**	0.392	---	---

CONTAMINATION

Water	%	**NEG**	NEG	---	---
Particles >4µm		**1511**	14488	---	---
Particles >6µm		**150**	4639	---	---
Particles >14µm		**23**	417	---	---
ISO 4406:1999 (c)		**18/14/12**	21/19/16	---	---
Silicon	ppm	**8**	6	---	---
Sodium	ppm	**2**	1	---	---
Potassium	ppm	**2**	<1	---	---

WEAR METALS

Iron	ppm	**2**	3	---	---
Copper	ppm	**26**	17	---	---
Lead	ppm	**<1**	2	---	---
Tin	ppm	**0**	0	---	---
Aluminum	ppm	**1**	<1	---	---
Chromium	ppm	**<1**	<1	---	---
Molybdenum	ppm	**0**	<1	---	---
Nickel	ppm	**<1**	0	---	---
Titanium	ppm	**0**	0	---	---
Silver	ppm	**0**	0	---	---
Manganese	ppm	**<1**	<1	---	---
Vanadium	ppm	**0**	0	---	---

ADDITIVES

Calcium	ppm	**414**	606	---	---
Magnesium	ppm	**9**	9	---	---
Zinc	ppm	**560**	577	---	---
Phosphorus	ppm	**415**	468	---	---
Barium	ppm	**0**	0	---	---
Boron	ppm	**8**	13	---	---

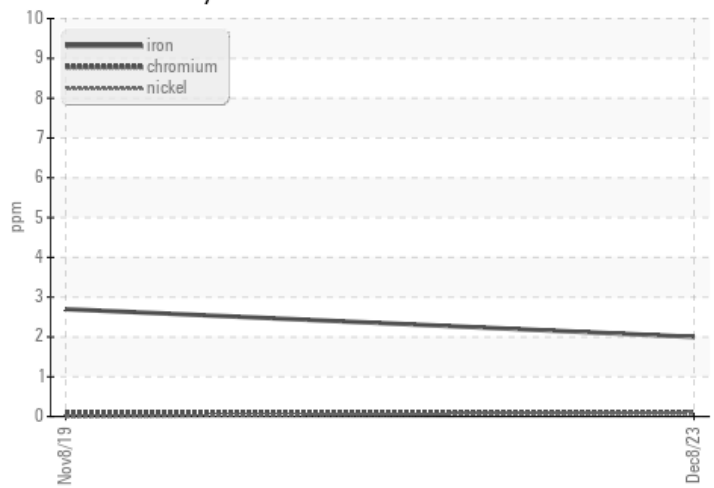
Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.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.

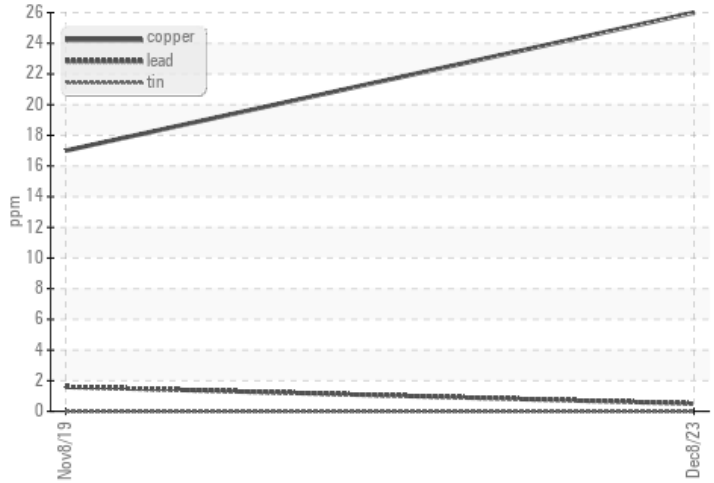
Depot: VOLVO8770
Unique No: 10791213
Signed: Wes Davis
Report Date: 18 Dec 2023

GRAPHS

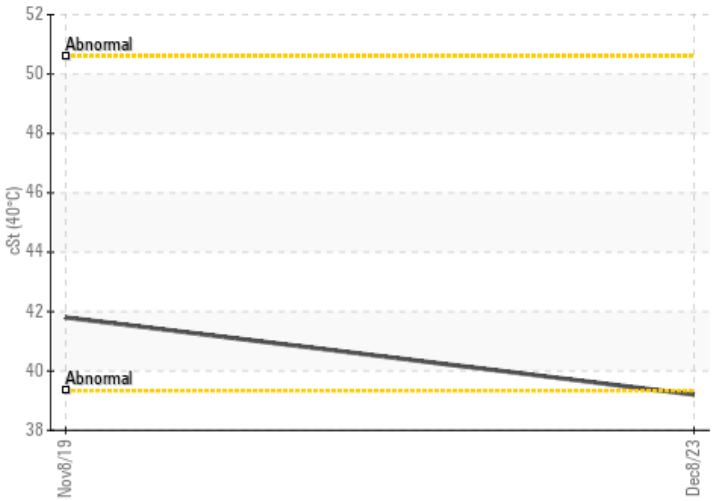
Ferrous Alloys



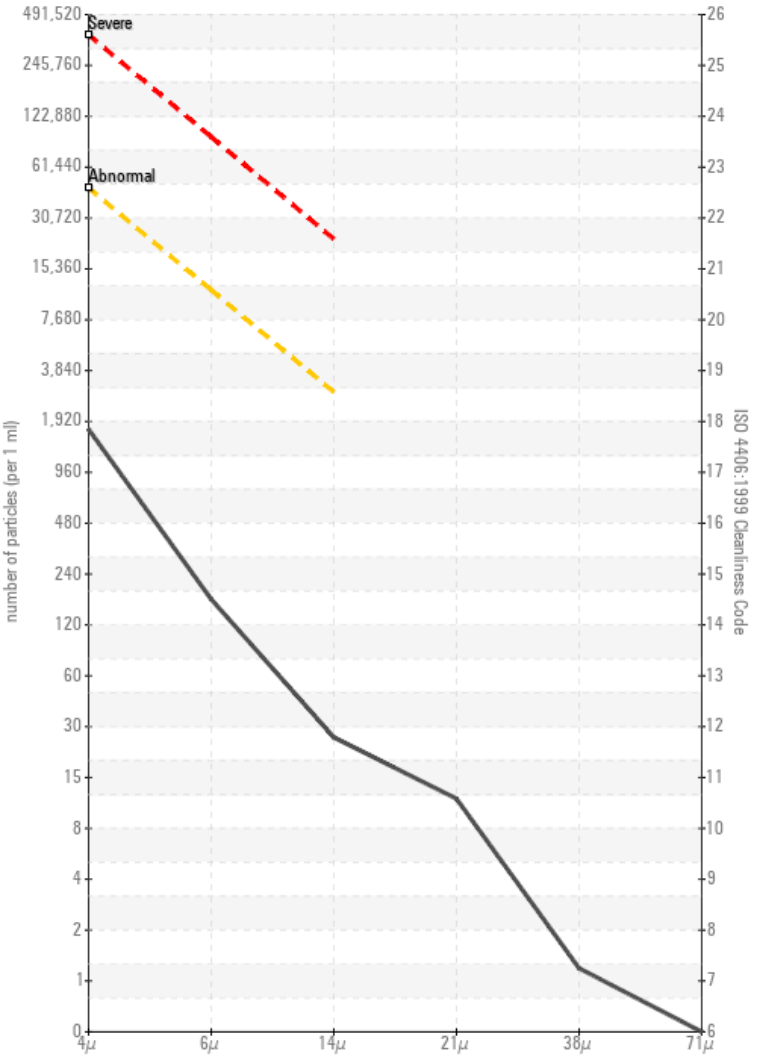
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number