



CONSTRUCTION EQUIPMENT

VOLVO ECR145E 311282 - HYDRAULIC SYSTEM



Sample No: VCP440096
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP440096	VCP398982	VCP285981	---
Sample Date	07 May 2024	29 Dec 2022	01 Sep 2020	---
Machine Hours	3505	3019	1869	---
Oil Hours	0	1500	1869	---
Oil Changed	Not Chngd	Not Chngd	Not Chngd	---
Sample Status	NORMAL	NORMAL	NORMAL	---

RIPA AND ASSOCIATES

10149 FISHER AVENUE
 TAMPA, FL
 US 33619
 Contact: PM Services
 PMServices@ripaconstruction.com
 T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	44.9	44.1	44.0	---
Acid Number (AN)	mg KOH/g	0.56	0.58	0.699	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		2727	6688	4704	---
Particles >6µm		690	1421	643	---
Particles >14µm		35	57	44	---
ISO 4406:1999 (c)		19/17/12	20/18/13	19/17/13	---
Silicon	ppm	2	3	4	---
Sodium	ppm	2	1	1	---
Potassium	ppm	0	0	<1	---

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	2	2	2	---
Copper	ppm	45	47	35	---
Lead	ppm	1	1	1	---
Tin	ppm	0	0	0	---
Aluminum	ppm	0	0	0	---
Chromium	ppm	0	0	<1	---
Molybdenum	ppm	0	0	<1	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	<1	---
Manganese	ppm	0	0	0	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	55	60	97	---
Magnesium	ppm	<1	0	2	---
Zinc	ppm	457	451	646	---
Phosphorus	ppm	491	444	509	---
Barium	ppm	0	0	<1	---
Boron	ppm	0	0	2	---

Depot: RIPTAM
Unique No: 11018646
Signed: Wes Davis
Report Date: 09 May 2024

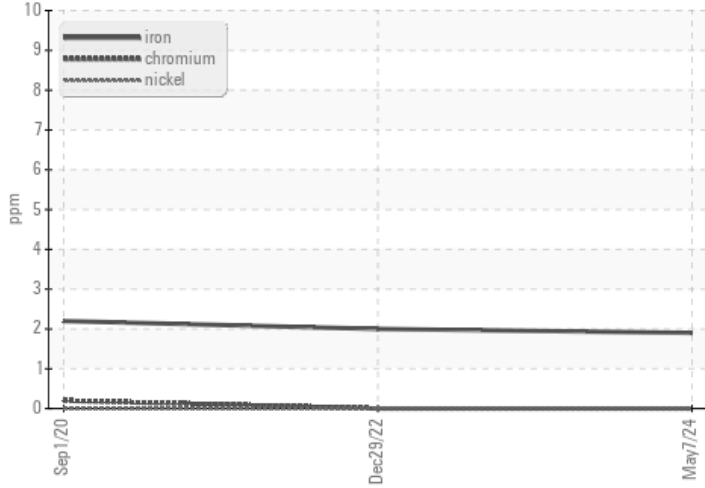


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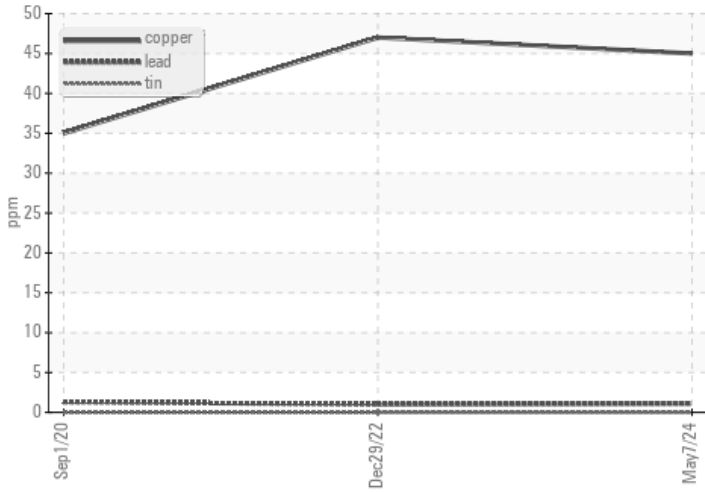


VOLVO GRAPHS

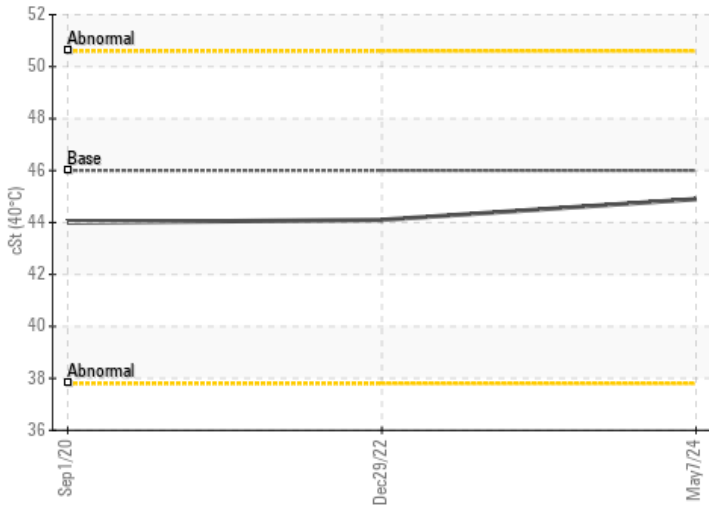
Ferrous Alloys



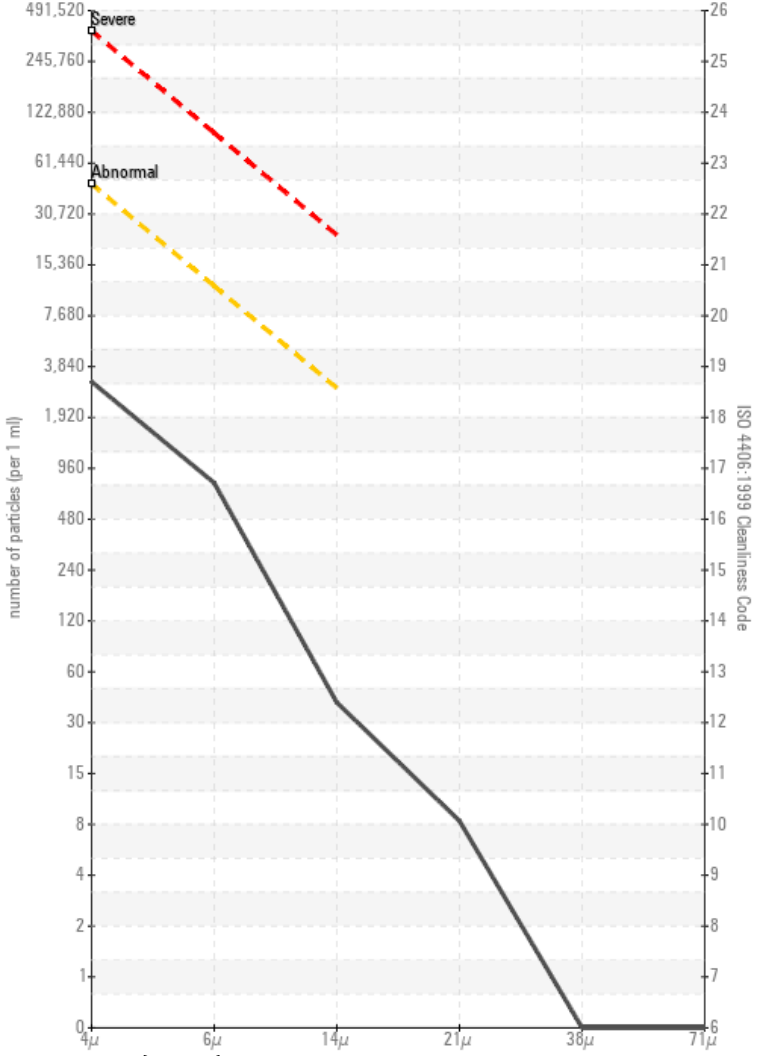
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

