



CONSTRUCTION EQUIPMENT

VOLVO EC60E 312793 - HYDRAULIC SYSTEM



Sample No: VCP411985
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP411985	VCP357441	VCP294780	---
Sample Date	03 Oct 2023	11 Apr 2022	26 Jan 2021	---
Machine Hours	1905	1412	976	---
Oil Hours	0	1412	976	---
Oil Changed	Changed	Not Changd	Not Changd	---
Sample Status	NORMAL	ABNORMAL	ABNORMAL	---

RIPA AND ASSOCIATES

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



OIL CONDITION

Visc @ 40°C	cSt	43.8	44.3	44.8	---
Acid Number (AN)	mg KOH/g	0.41	0.44	0.452	---



CONTAMINATION

Particles >4µm		2963	14532	59945	---
Particles >6µm		148	2314	11532	---
Particles >14µm		7	98	394	---
ISO 4406:1999 (c)		19/14/10	21/18/14	23/21/16	---
Silicon	ppm	1	<1	0	---
Sodium	ppm	<1	0	0	---
Potassium	ppm	<1	<1	<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	3	1	3	---
Copper	ppm	7	6	6	---
Lead	ppm	<1	1	1	---
Tin	ppm	0	0	0	---
Aluminum	ppm	2	<1	0	---
Chromium	ppm	<1	0	<1	---
Molybdenum	ppm	0	0	0	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	<1	---
Manganese	ppm	0	0	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	54	74	78	---
Magnesium	ppm	<1	2	<1	---
Zinc	ppm	391	444	453	---
Phosphorus	ppm	345	347	355	---
Barium	ppm	0	0	0	---
Boron	ppm	0	0	0	---

Depot: RIPTAM
Unique No: 10675419
Signed: Wes Davis
Report Date: 05 Oct 2023

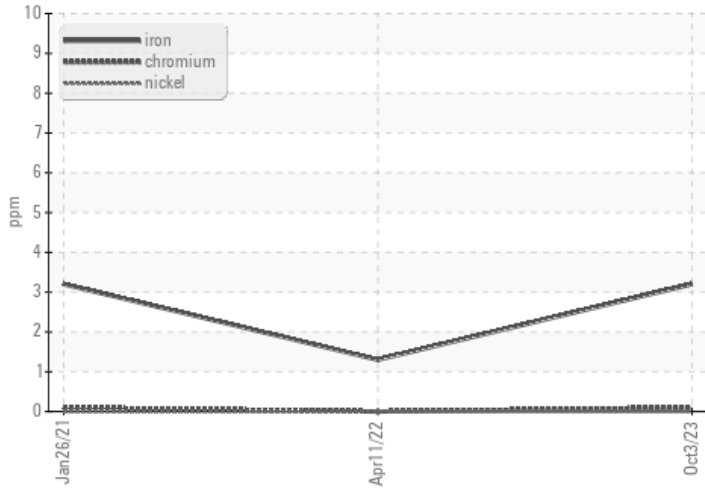


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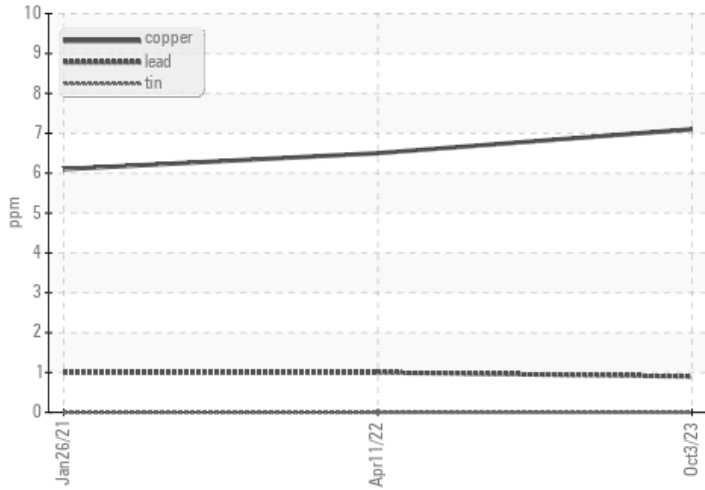


GRAPHS

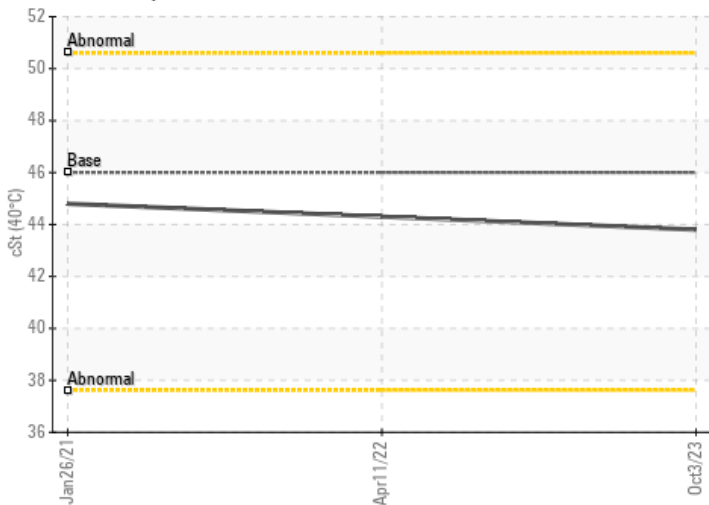
Ferrous Alloys



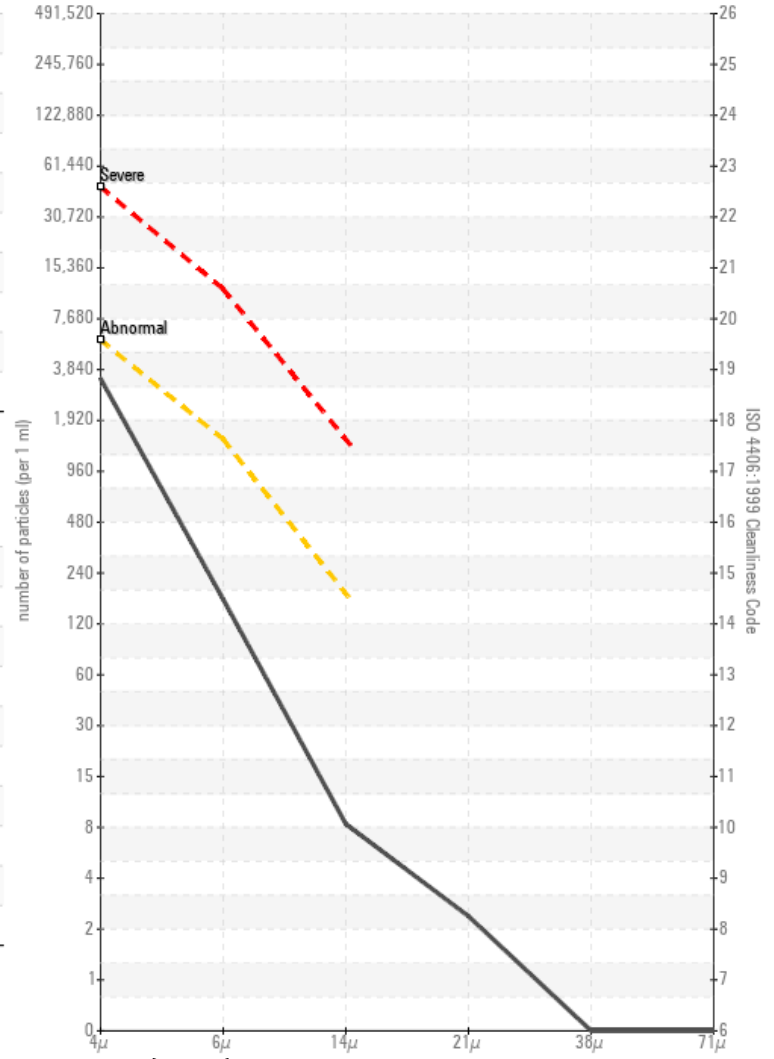
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

