



CONSTRUCTION EQUIPMENT

VOLVO ECR145E 312070 - HYDRAULIC SYSTEM



Sample No: VCP426228
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP426228	VCP392787	VCP242485	---
Sample Date	25 Sep 2023	29 Nov 2022	31 Aug 2020	---
Machine Hours	1654	1137	462	---
Oil Hours	0	1137	462	---
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	47.7	47.1	45.1	---
Acid Number (AN)	mg KOH/g	0.47	0.45	0.514	---



CONTAMINATION

Particles >4µm		26421	4671	4780	---
Particles >6µm		1831	1165	838	---
Particles >14µm		59	73	23	---
ISO 4406:1999 (c)		22/18/13	19/17/13	19/17/12	---
Silicon	ppm	3	2	3	---
Sodium	ppm	0	<1	1	---
Potassium	ppm	2	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	5	0	2	---
Copper	ppm	36	37	27	---
Lead	ppm	<1	0	1	---
Tin	ppm	<1	0	0	---
Aluminum	ppm	1	0	0	---
Chromium	ppm	4	0	0	---
Molybdenum	ppm	<1	0	0	---
Nickel	ppm	<1	0	0	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	0	2	---
Manganese	ppm	0	0	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	100	94	93	---
Magnesium	ppm	<1	<1	23	---
Zinc	ppm	433	456	528	---
Phosphorus	ppm	379	384	389	---
Barium	ppm	0	0	20	---
Boron	ppm	0	0	2	---

Depot: RIPTAM
Unique No: 10714237
Signed: Wes Davis
Report Date: 30 Oct 2023

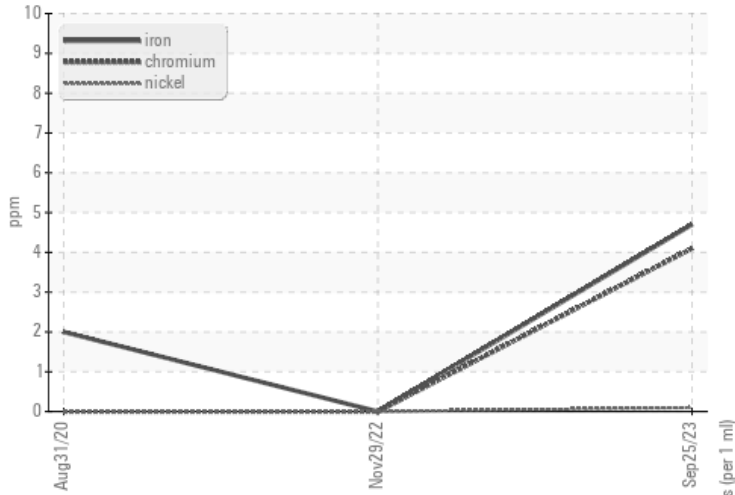


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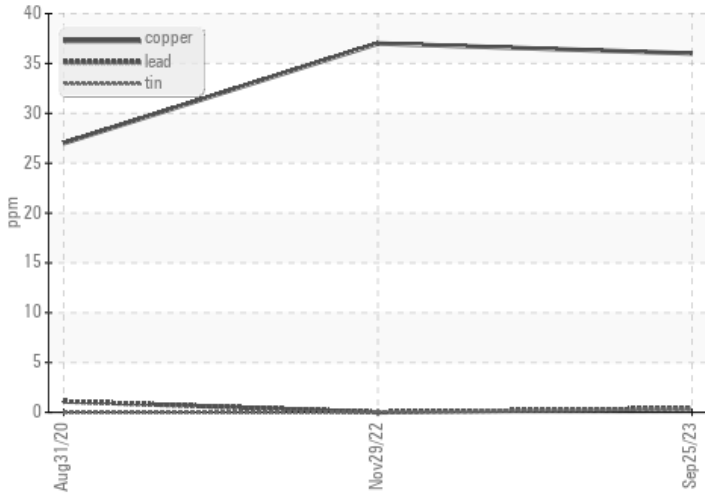


GRAPHS

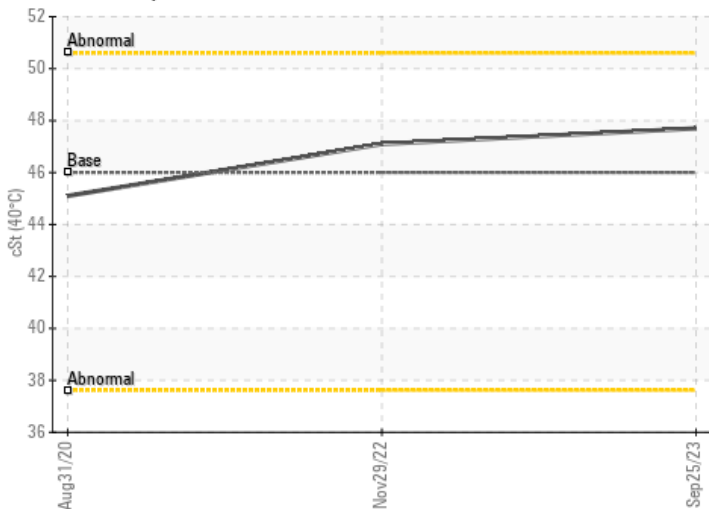
Ferrous Alloys



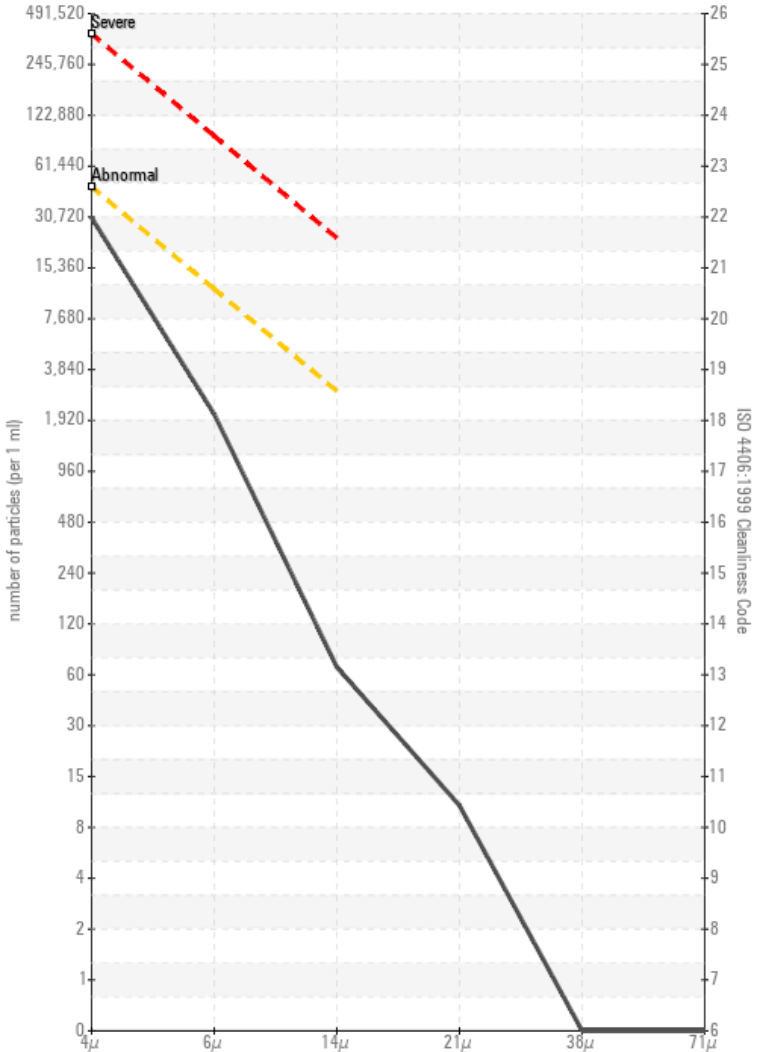
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

