



CONSTRUCTION EQUIPMENT

VOLVO EC145EL 314052 - HYDRAULIC SYSTEM



Sample No: VCP411632
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP411632	VCP359403	VCP344366	---
Sample Date	01 Jun 2023	03 May 2022	27 Oct 2021	---
Machine Hours	2501	1470	1001	---
Oil Hours	0	1470	1500	---
Oil Changed	Not Chngd	Not Chngd	Not Chngd	---
Sample Status	ATTENTION	ATTENTION	ABNORMAL	---

RIPA AND ASSOCIATES
 10149 FISHER AVENUE
 TAMPA, FL
 US 33619
 Contact: ROBERT TURNER
 rturner@ripatampa.com
 T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	42.2	43.7	44.2	---
Acid Number (AN)	mg KOH/g	0.41	0.53	0.442	---



CONTAMINATION

Particles >4µm		5096	6031	11204	---
Particles >6µm		977	1445	1096	---
Particles >14µm		39	100	25	---
ISO 4406:1999 (c)		20/17/12	20/18/14	21/17/12	---
Silicon	ppm	2	2	2	---
Sodium	ppm	<1	<1	<1	---
Potassium	ppm	0	0	0	---

Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	3	1	2	---
Copper	ppm	36	54	55	---
Lead	ppm	0	1	1	---
Tin	ppm	0	<1	<1	---
Aluminum	ppm	<1	<1	<1	---
Chromium	ppm	0	0	0	---
Molybdenum	ppm	3	0	0	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	<1	0	---
Manganese	ppm	0	0	0	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	100	59	67	---
Magnesium	ppm	9	<1	<1	---
Zinc	ppm	411	432	469	---
Phosphorus	ppm	373	383	385	---
Barium	ppm	0	0	0	---
Boron	ppm	0	<1	1	---

Depot: RIPTAM
Unique No: 10551877
Signed: Wes Davis
Report Date: 13 Jul 2023

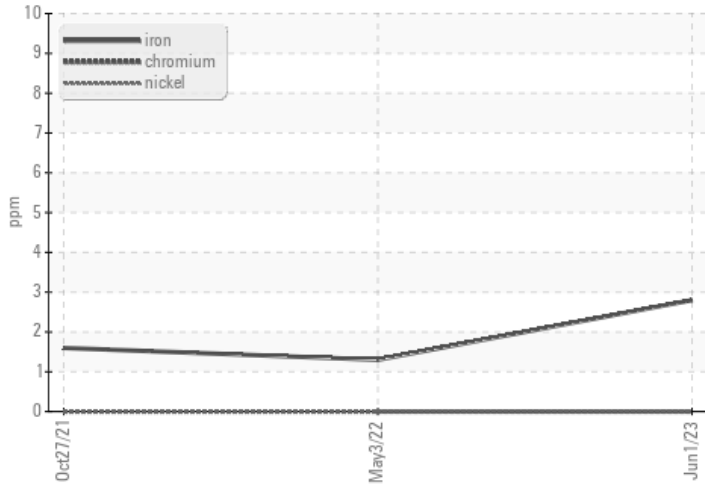


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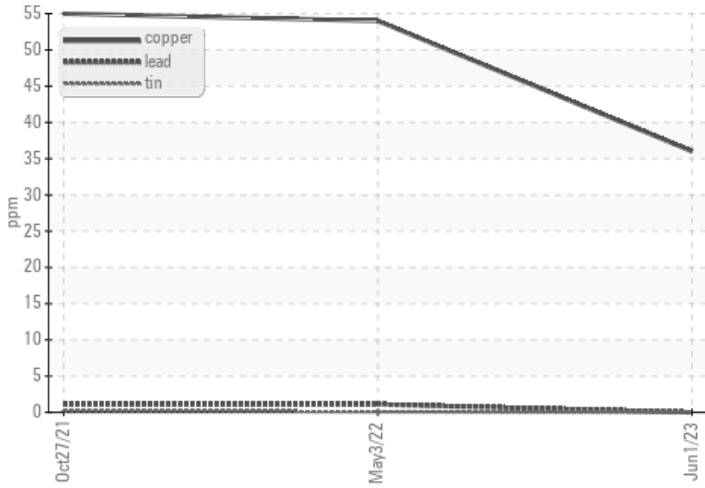


VOLVO GRAPHS

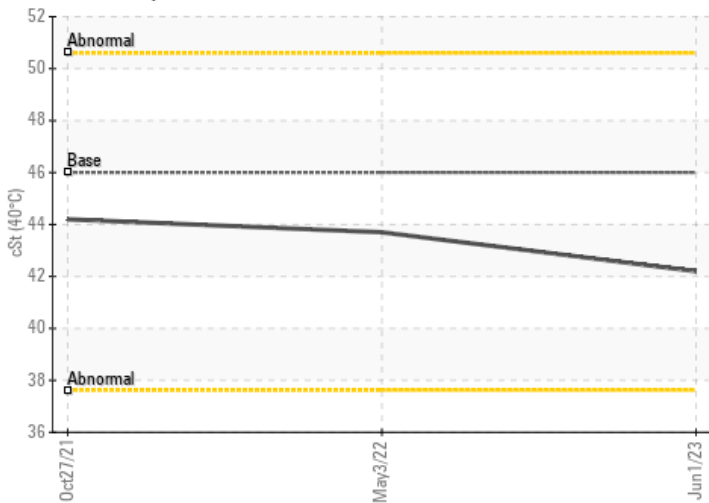
Ferrous Alloys



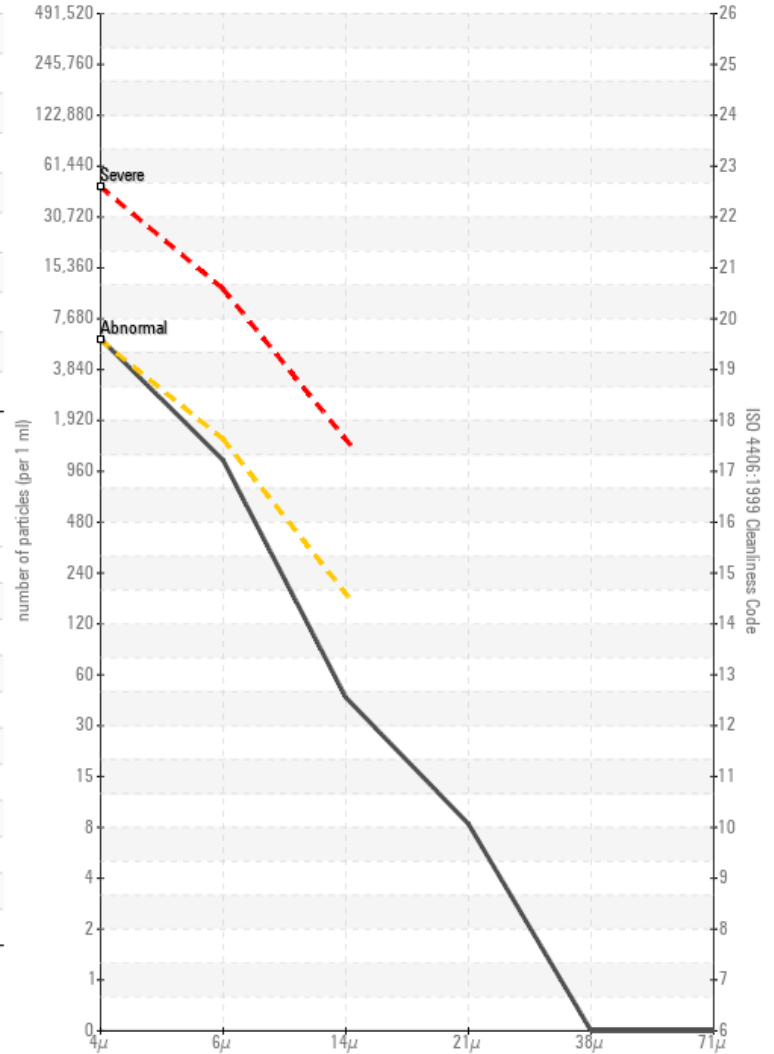
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

