



CONSTRUCTION EQUIPMENT

VOLVO SD115B 236662 - HYDRAULIC SYSTEM



Sample No: VCP412102
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP412102	VCP306451	---	---
Sample Date	15 Jun 2023	04 Feb 2021	---	---
Machine Hours	3782	1597	---	---
Oil Hours	0	1597	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	ABNORMAL	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	58.2	■ 43.4	---	---
Acid Number (AN)	mg KOH/g	■ 0.32	■ 0.161	---	---



CONTAMINATION

Particles >4µm		▲ 17552	▲ 37632	---	---
Particles >6µm		■ 1030	▲ 9312	---	---
Particles >14µm		▲ 185	▲ 271	---	---
ISO 4406:1999 (c)		21/17/15	22/20/15	---	---
Silicon	ppm	■ 2	■ 3	---	---
Sodium	ppm	■ <1	■ <1	---	---
Potassium	ppm	■ <1	■ 3	---	---

Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. Iron and lead ppm levels are abnormal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	▲ 54	▲ 55	---	---
Copper	ppm	■ 19	■ 2	---	---
Lead	ppm	▲ 11	■ 6	---	---
Tin	ppm	■ <1	■ 0	---	---
Aluminum	ppm	■ 1	■ 0	---	---
Chromium	ppm	■ <1	■ <1	---	---
Molybdenum	ppm	■ 3	■ <1	---	---
Nickel	ppm	■ 0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	■ <1	■ 1	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	■ 119	■ 109	---	---
Magnesium	ppm	■ 16	■ <1	---	---
Zinc	ppm	■ 376	■ 72	---	---
Phosphorus	ppm	■ 389	■ 443	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 4	■ <1	---	---

Depot: RIPTAM
Unique No: 10551879
Signed: Doug Bogart
Report Date: 20 Jul 2023

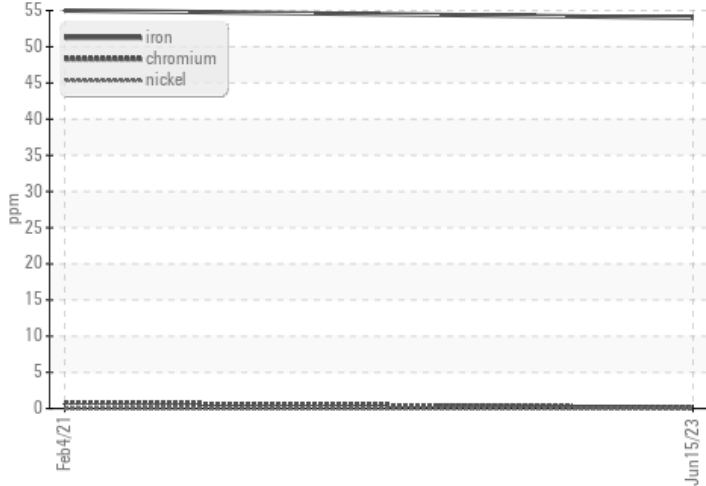


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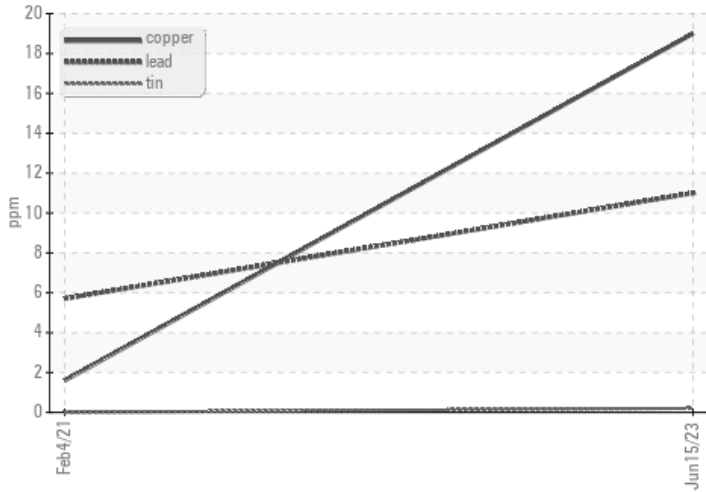


GRAPHS

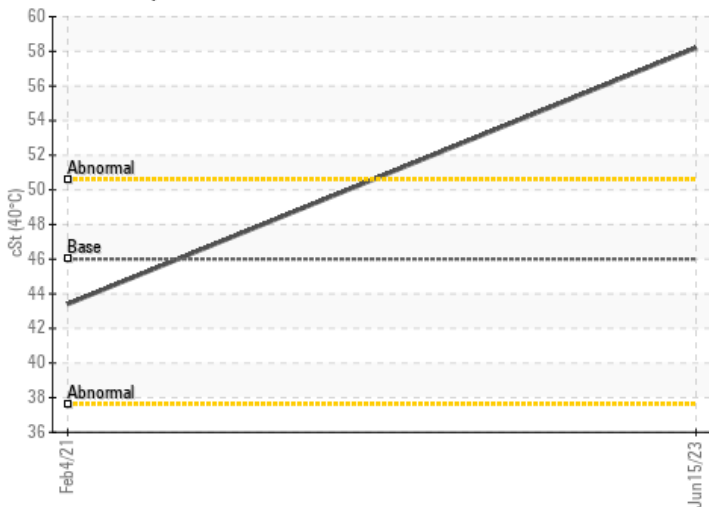
▲ Ferrous Alloys



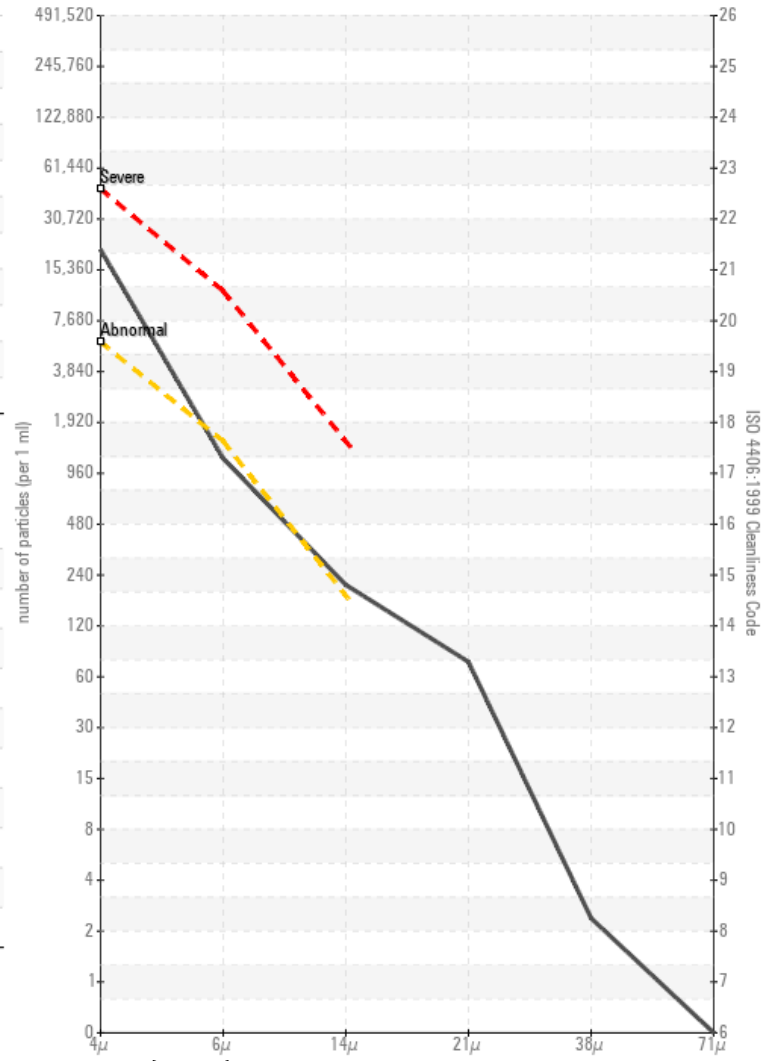
▲ Non-ferrous Metals



Viscosity @ 40°C



▲ Particle Count



Acid Number

