



CONSTRUCTION EQUIPMENT

VOLVO SD115B 236662 - HYDRAULIC SYSTEM



Sample No: VCP440483
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP440483	VCP440794	VCP412102	VCP306451
Sample Date	07 Jun 2024	28 Nov 2023	15 Jun 2023	04 Feb 2021
Machine Hours	4736	4274	3782	1597
Oil Hours	0	2000	0	1597
Oil Changed	Not Chngd	Changed	Not Chngd	Not Chngd
Sample Status	ABNORMAL	ABNORMAL	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	52.4	60.8	58.2	43.4
Acid Number (AN)	mg KOH/g	0.39	0.41	0.32	0.161



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		▲ 96830	● 7782	▲ 17552	▲ 37632
Particles >6µm		▲ 19219	■ 168	■ 1030	▲ 9312
Particles >14µm		■ 110	■ 11	● 185	▲ 271
ISO 4406:1999 (c)		24/21/14	20/15/11	21/17/15	22/20/15
Silicon	ppm	■ 2	■ 2	■ 2	■ 3
Sodium	ppm	■ <1	■ 2	■ <1	■ <1
Potassium	ppm	■ 2	■ 2	■ <1	■ 3

Diagnosis
 The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The iron level is abnormal. There is a high 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	▲ 52	▲ 57	▲ 54	▲ 55
Copper	ppm	■ 14	■ 22	■ 19	■ 2
Lead	ppm	■ 7	▲ 17	▲ 11	■ 6
Tin	ppm	■ <1	■ 0	■ <1	■ 0
Aluminum	ppm	■ 2	■ 1	■ 1	■ 0
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 1	■ 2	■ 3	■ <1
Nickel	ppm	■ 0	■ 0	■ 0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	■ <1	■ <1	■ <1	■ 1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	■ 153	■ 109	■ 119	■ 109
Magnesium	ppm	■ 11	■ 14	■ 16	■ <1
Zinc	ppm	■ 431	■ 373	■ 376	■ 72
Phosphorus	ppm	■ 329	■ 389	■ 389	■ 443
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 11	■ 3	■ 4	■ <1

Depot: RIPTAM
Unique No: 11075175
Signed: Angela Borella
Report Date: 14 Jun 2024

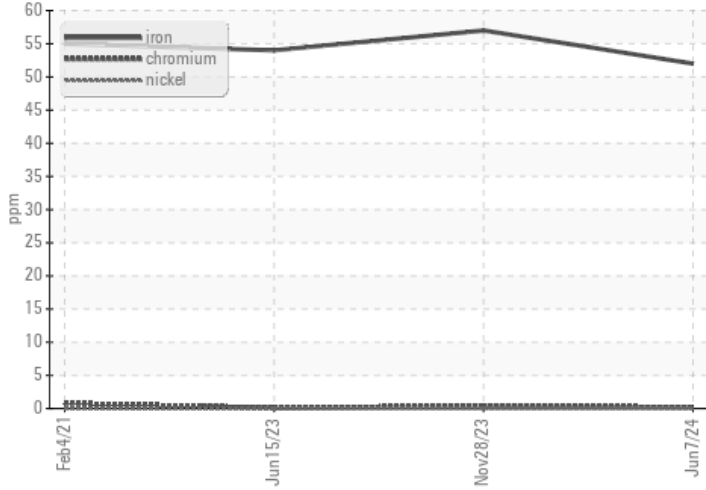


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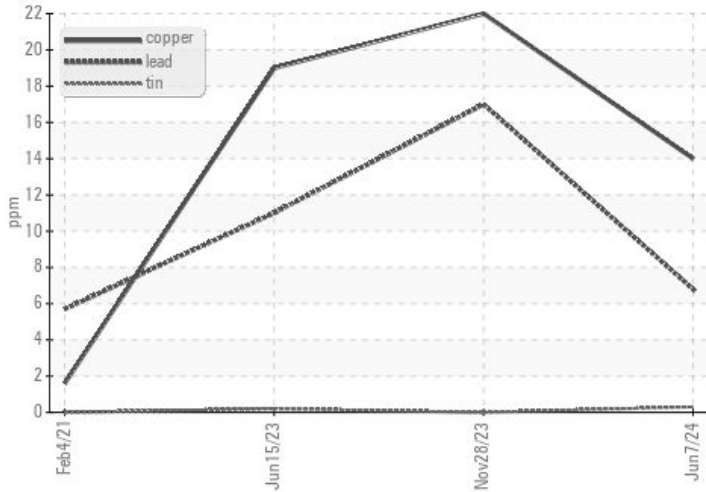


GRAPHS

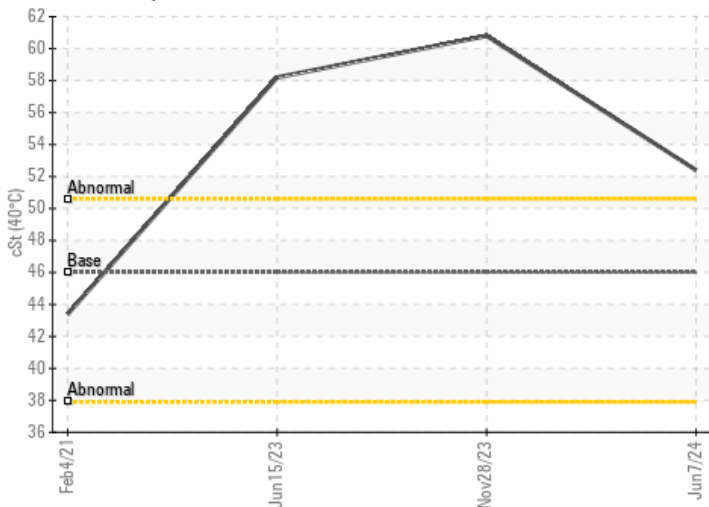
▲ Ferrous Alloys



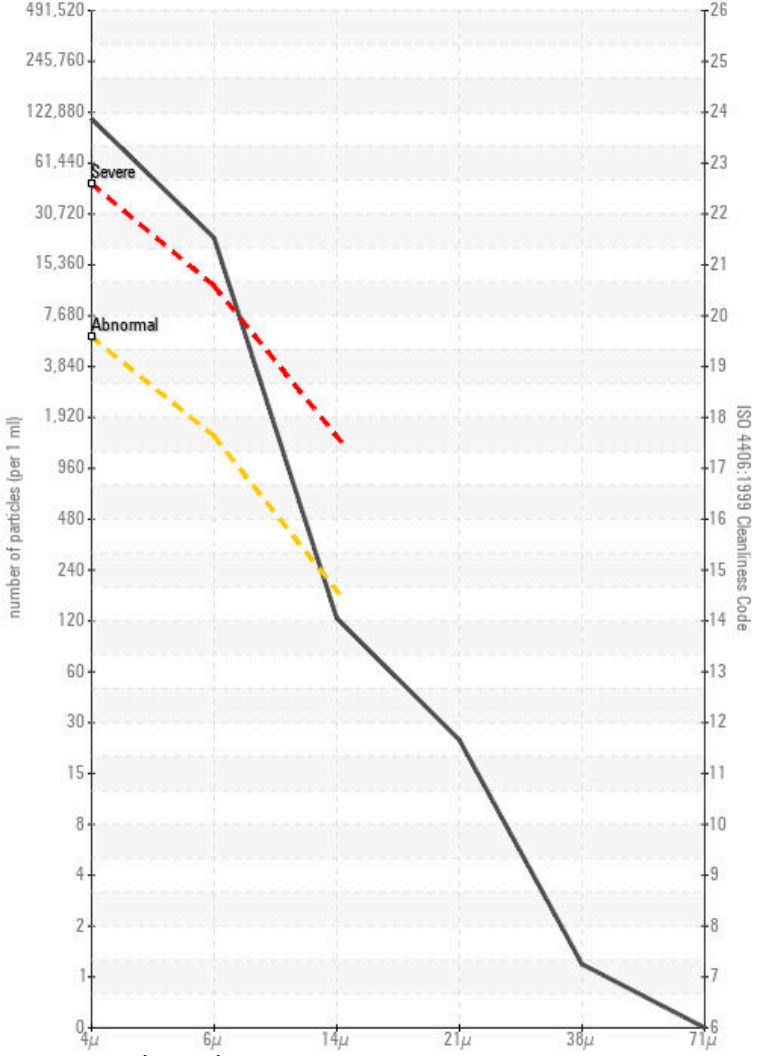
Non-ferrous Metals



Viscosity @ 40°C



▲ Particle Count



Acid Number

