



CONSTRUCTION EQUIPMENT

393309 VOLVO SD115B 236555 - HYDRAULIC SYSTEM



Sample No: VCP359055
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 393309



SAMPLE INFORMATION

Sample Number	VCP359055	VCP343524	VCP311959	VCP305550
Sample Date	02 May 2022	30 Nov 2021	12 Jun 2021	18 Jan 2021
Machine Hours	5221	4650	3986	3328
Oil Hours	500	2000	3986	3328
Oil Changed	Not Chngd	Changed	Not Chngd	Not Chngd
Sample Status	NORMAL	ABNORMAL	ATTENTION	NORMAL

RIPA AND ASSOCIATES

10149 FISHER AVENUE
TAMPA, FL
US 33619
Contact: ROBERT TURNER
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T:
F:

OIL CONDITION

Visc @ 40°C	cSt	38.3	▲ 29.6	▲ 30.49	■ 42.8
Acid Number (AN)	mg KOH/g	0.46	■ 0.471	■ 0.431	■ 0.302

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		7490	■ 965	■ 2865	■ 3062
Particles >6µm		1971	■ 99	■ 318	■ 170
Particles >14µm		160	■ 14	■ 33	■ 29
ISO 4406:1999 (c)		20/18/14	17/14/11	19/15/12	19/15/12
Silicon	ppm	5	■ 13	■ 14	■ 2
Sodium	ppm	1	■ 3	■ 3	■ <1
Potassium	ppm	<1	■ <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	17	▲ 25	■ 16	■ 38
Copper	ppm	4	■ 10	■ 6	■ 7
Lead	ppm	1	■ 2	■ 2	■ 4
Tin	ppm	<1	<1	0	0
Aluminum	ppm	1	■ 2	■ <1	■ 0
Chromium	ppm	0	■ <1	■ <1	■ <1
Molybdenum	ppm	3	■ 7	■ 7	■ 1
Nickel	ppm	0	■ 0	■ 0	■ <1
Titanium	ppm	0	<1	<1	0
Silver	ppm	<1	<1	0	0
Manganese	ppm	<1	■ <1	■ <1	■ <1
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	125	■ 264	■ 266	■ 112
Magnesium	ppm	16	43	■ 43	■ 14
Zinc	ppm	392	■ 340	■ 323	■ 342
Phosphorus	ppm	346	■ 310	■ 312	■ 380
Barium	ppm	0	■ 0	■ 0	■ 0
Boron	ppm	5	■ 4	■ 24	■ 2

Depot: RIPTAM
Unique No: 9971382
Signed: Wes Davis
Report Date: 12 May 2022

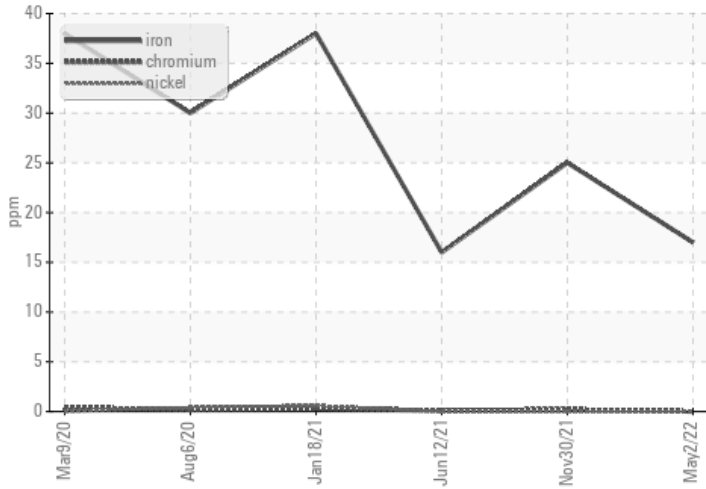


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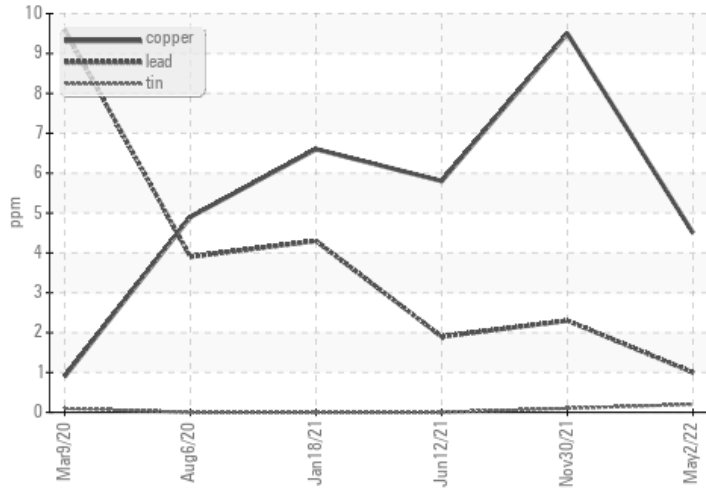


GRAPHS

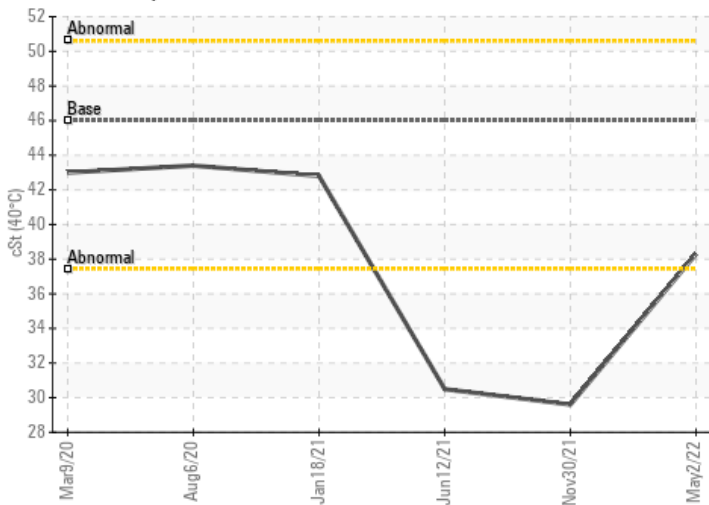
Ferrous Alloys



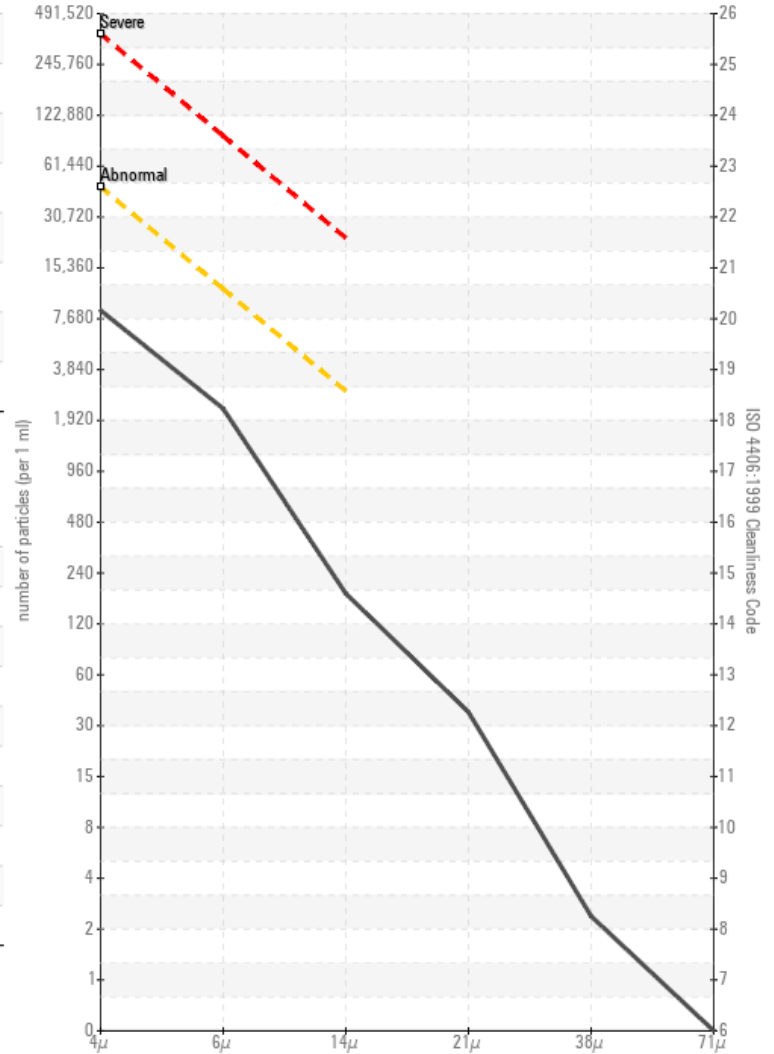
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

