



CONSTRUCTION EQUIPMENT

VOLVO SD115B 236554 - HYDRAULIC SYSTEM



Sample No: VCP437845
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP437845	VCP386096	VCP345510	VCP322125
Sample Date	13 Feb 2024	13 Sep 2022	01 Feb 2022	17 Jun 2021
Machine Hours	5960	4714	4168	3705
Oil Hours	0	500	2000	0
Oil Changed	Not Chngd	Not Chngd	Changed	N/A
Sample Status	ABNORMAL	ABNORMAL	ATTENTION	MARGINAL

RIPA AND ASSOCIATES

10149 FISHER AVENUE
TAMPA, FL
US 33619
Contact: PM Services
PMServices@ripaconstruction.com
T:
F:



OIL CONDITION

Visc @ 40°C	cSt	63.7	58.6	67.9	52.6
Acid Number (AN)	mg KOH/g	0.56	0.43	0.36	0.413



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		---	▲ 98729	■ 4702	■ 5997
Particles >6µm		---	■ 5047	■ 277	■ 1022
Particles >14µm		---	■ 100	■ 24	■ 89
ISO 4406:1999 (c)		---	24/20/14	19/15/12	20/17/14
Silicon	ppm	■ <1	■ <1	■ <1	■ <1
Sodium	ppm	■ 2	■ 0	■ 0	■ <1
Potassium	ppm	■ <1	■ 0	■ 1	■ 0



WEAR METALS

Iron	ppm	■ 10	■ 13	■ 8	▲ 32
Copper	ppm	■ 7	■ 6	■ 10	■ 19
Lead	ppm	■ 0	■ <1	■ 1	■ 3
Tin	ppm	■ 0	0	0	<1
Aluminum	ppm	■ 0	■ <1	■ <1	■ <1
Chromium	ppm	■ 0	■ 0	■ 0	■ <1
Molybdenum	ppm	■ 1	■ <1	■ <1	■ <1
Nickel	ppm	■ 0	■ 0	■ 0	■ 0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	■ 0	■ <1	■ <1	■ <1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 69	■ 139	■ 90	■ 63
Magnesium	ppm	■ 8	■ 4	■ 4	■ 4
Zinc	ppm	■ 449	■ 382	■ 451	■ 410
Phosphorus	ppm	■ 357	■ 367	■ 348	■ 343
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ <1	■ <1	■ 0	■ 1

Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. Viscosity of sample indicates oil is within ISO 68 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

Depot: RIPTAM
Unique No: 10995719
Signed: Don Baldrige
Report Date: 26 Apr 2024

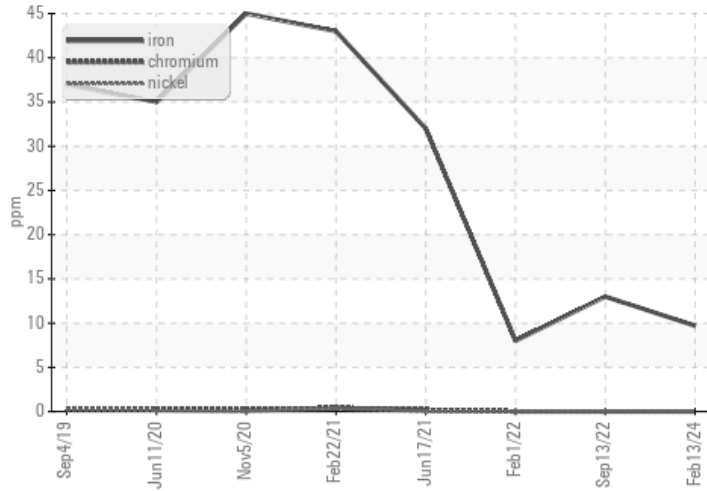


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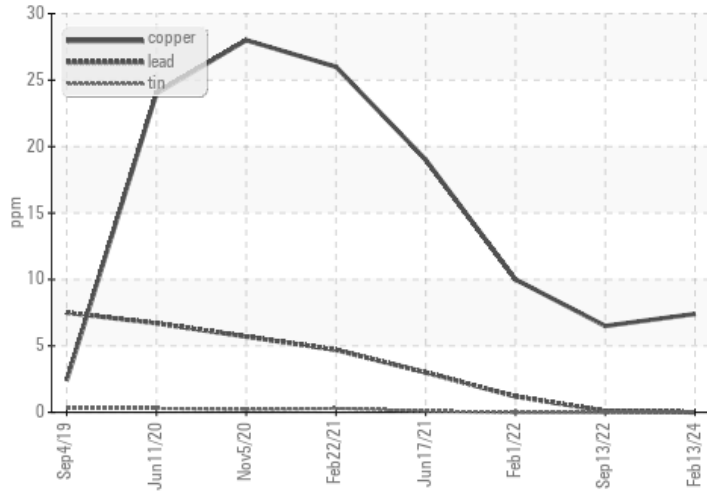


GRAPHS

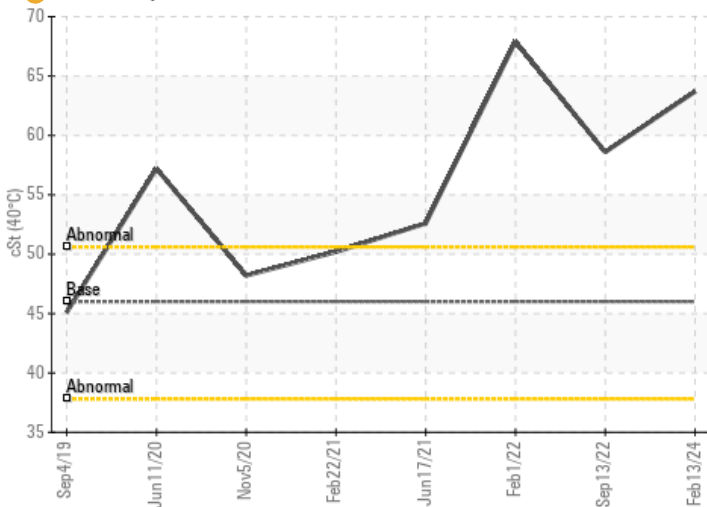
Ferrous Alloys



Non-ferrous Metals



● Viscosity @ 40°C



Acid Number

