



CONSTRUCTION EQUIPMENT

CITY OF TAMPA VOLVO EW160 323426 - HYDRAULIC SYSTEM



Sample No: VCP449945
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: CITY OF TAMPA



SAMPLE INFORMATION

Sample Number	VCP449945	VCP437934	VCP428686	VCP395348
Sample Date	22 May 2024	28 Feb 2024	08 Dec 2023	05 Jan 2023
Machine Hours	6734	5275	5787	4196
Oil Hours	0	2000	1700	4196
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	42.2	43.2	43.3	46.8
Acid Number (AN)	mg KOH/g	0.34	0.38	0.32	0.42



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		4860	▲ 173043	2966	7565
Particles >6µm		1195	▲ 39530	71	285
Particles >14µm		111	712	15	7
ISO 4406:1999 (c)		19/17/14	25/22/17	19/13/11	20/15/10
Silicon	ppm	2	3	3	6
Sodium	ppm	3	3	2	2
Potassium	ppm	3	2	<1	4

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	4	5	3	5
Copper	ppm	6	9	8	13
Lead	ppm	<1	0	<1	1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	<1	1	0	0
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	1	2	1	5
Nickel	ppm	0	1	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	<1	0
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	84	106	88	137
Magnesium	ppm	4	10	8	16
Zinc	ppm	414	417	402	396
Phosphorus	ppm	338	273	327	314
Barium	ppm	0	0	0	0
Boron	ppm	0	3	2	5

Depot: VOLVO0093
Unique No: 11056045
Signed: Wes Davis
Report Date: 30 May 2024

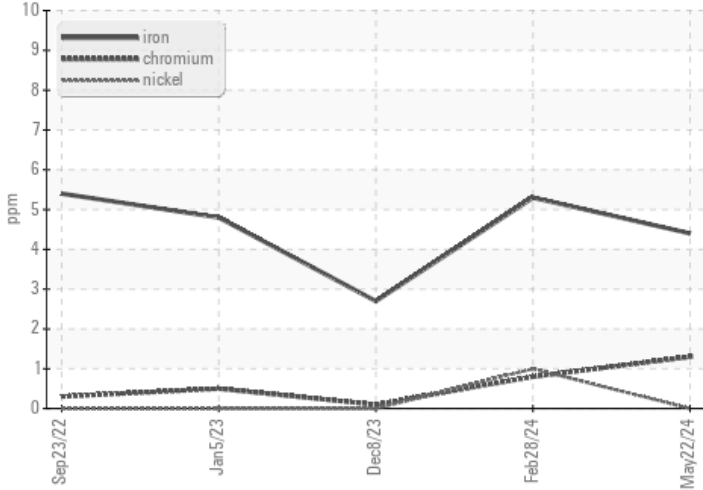


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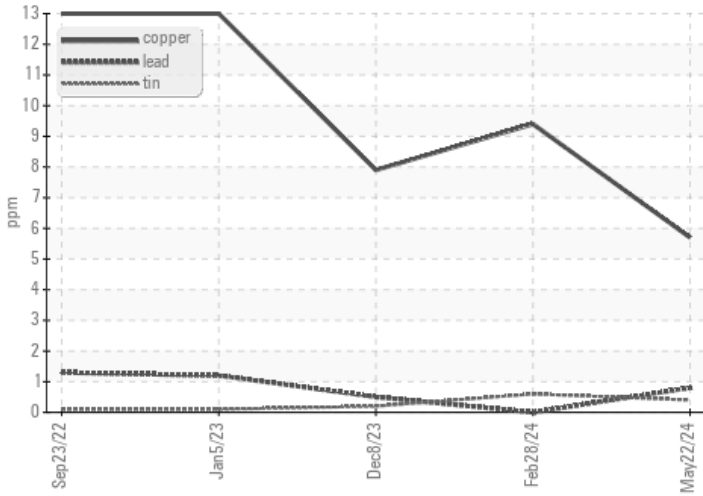


GRAPHS

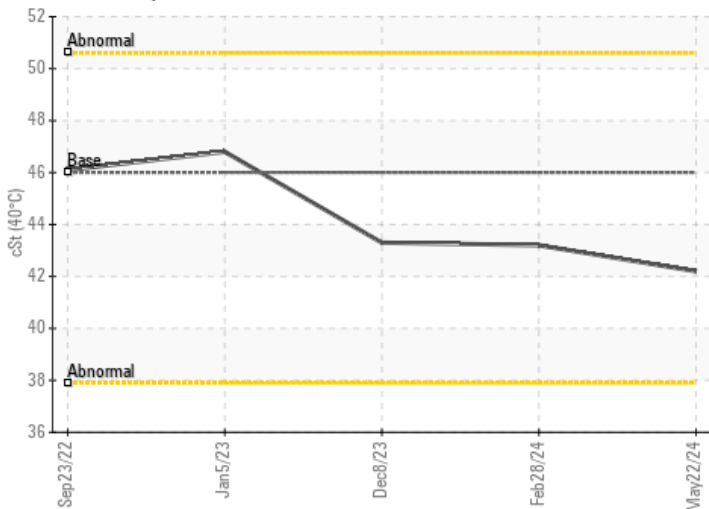
Ferrous Alloys



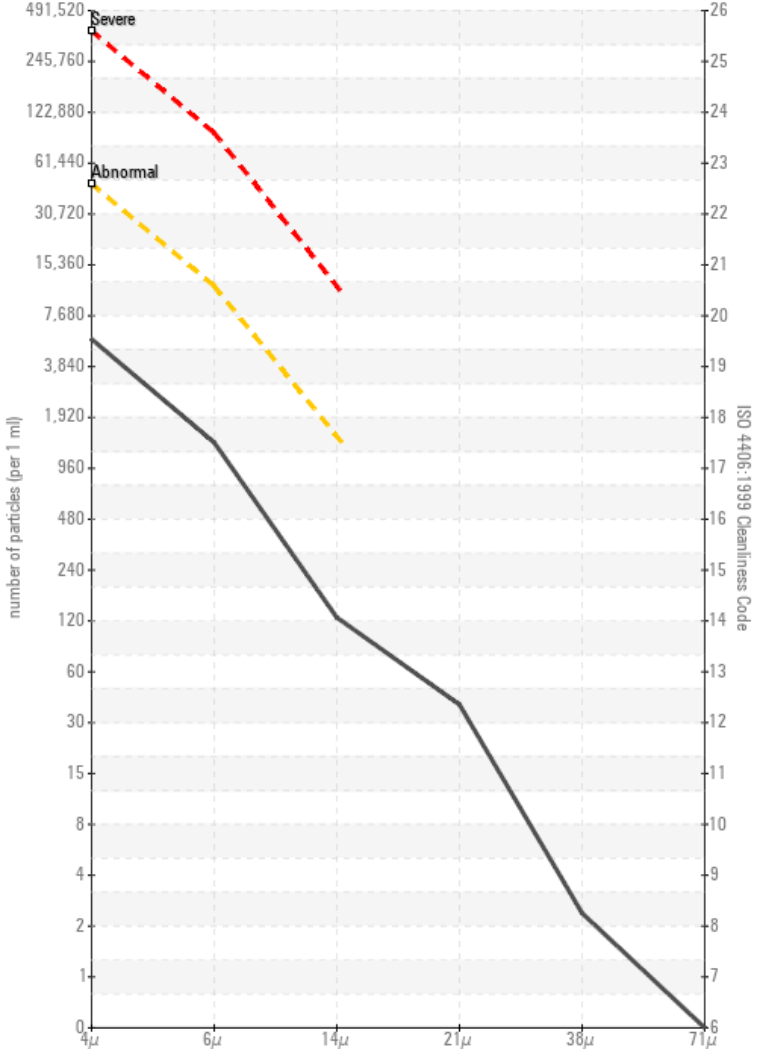
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

