



CONSTRUCTION EQUIPMENT

2035 SUWANNEE VOLVO L180H 5496 - HYDRAULIC SYSTEM



Sample No: VCP438157
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 2035 SUWANNEE



SAMPLE INFORMATION

Sample Number	VCP438157	VCP412999	VCP418115	VCP405148
Sample Date	18 Jan 2024	18 Jul 2023	02 Jun 2023	14 Apr 2023
Machine Hours	13222	11082	10460	9652
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	NORMAL	SEVERE	ABNORMAL	ATTENTION

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OIL CONDITION

Visc @ 40°C	cSt	41.2	41.9	42.2	40.6
Acid Number (AN)	mg KOH/g	0.186	0.28	0.34	0.29



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		4702	61973	13992	7126
Particles >6µm		275	23017	2801	1231
Particles >14µm		13	3908	91	32
ISO 4406:1999 (c)		19/15/11	23/22/19	21/19/14	20/17/12
Silicon	ppm	4	2	2	3
Sodium	ppm	3	3	0	3
Potassium	ppm	0	0	1	0

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	11	4	4	5
Copper	ppm	<1	1	<1	<1
Lead	ppm	0	0	<1	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	1	<1	0	1
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	<1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	74	71	89	68
Magnesium	ppm	0	4	4	5
Zinc	ppm	375	429	433	393
Phosphorus	ppm	324	348	322	328
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: VOLVO0093
Unique No: 10847082
Signed: Wes Davis
Report Date: 26 Jan 2024

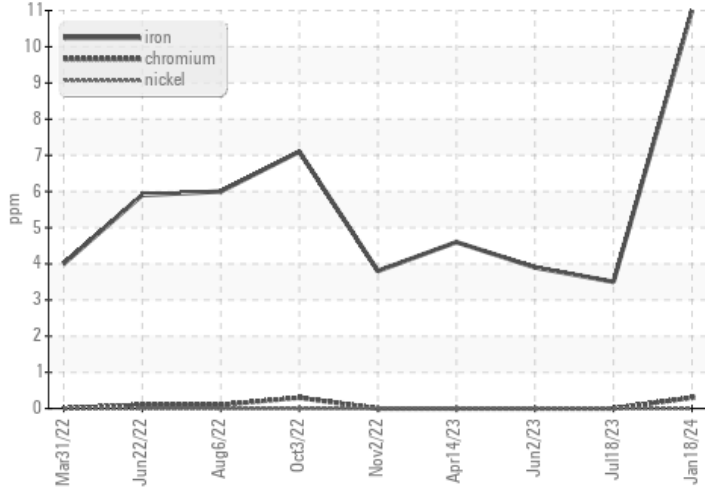


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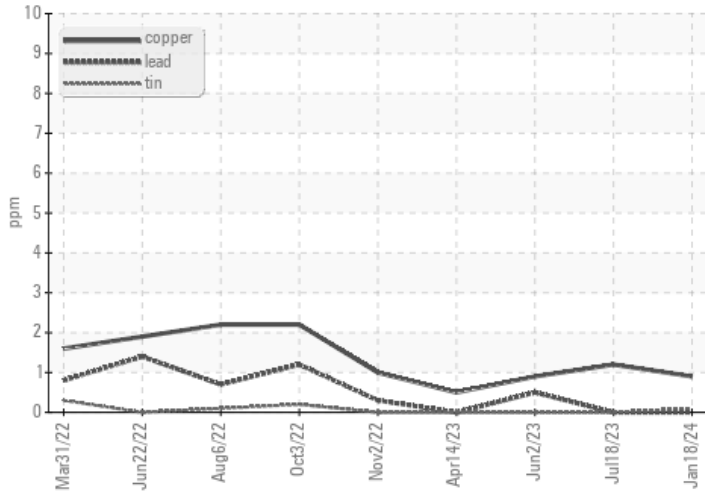


GRAPHS

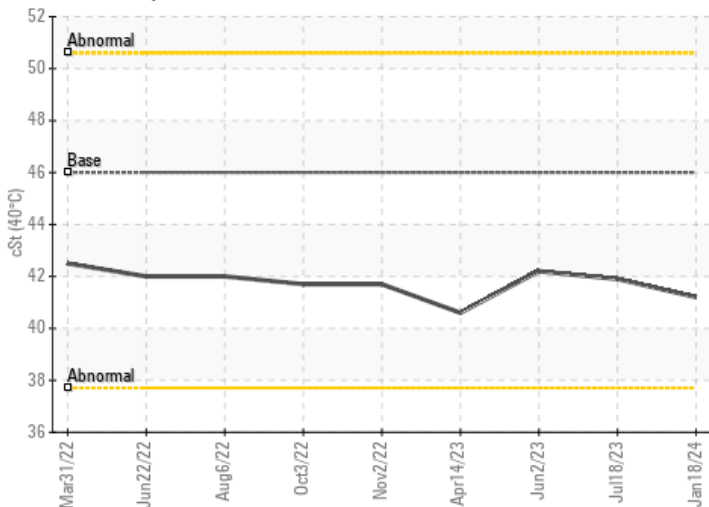
Ferrous Alloys



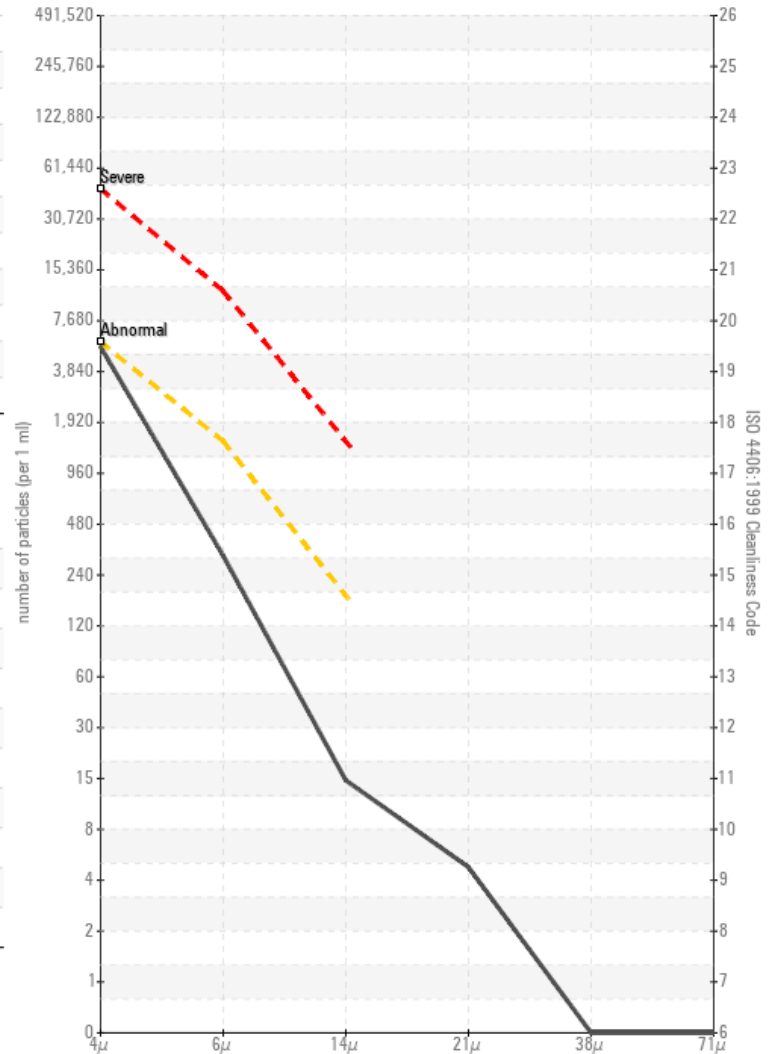
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

