



CONSTRUCTION EQUIPMENT

SWA333191 TRADE IN VOLVO L180H 004502 - HYDRAULIC SYSTEM



Sample No: VCP411605
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWA333191 TRADE IN



SAMPLE INFORMATION

Sample Number	VCP411605	VCP402334	VCP364395	VCP354551
Sample Date	11 Sep 2023	06 Mar 2023	26 Aug 2022	01 Jun 2022
Machine Hours	11087	10109	8634	7886
Oil Hours	0	2000	4000	3800
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	ATTENTION	ATTENTION	NORMAL	ATTENTION

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OIL CONDITION

Visc @ 40°C	cSt	42.4	41.7	39.7	57.8
Acid Number (AN)	mg KOH/g	0.24	0.31	0.34	0.37



CONTAMINATION

Particles >4µm		5800	7390	2920	2573
Particles >6µm		828	1347	561	638
Particles >14µm		30	44	26	74
ISO 4406:1999 (c)		20/17/12	20/18/13	19/16/12	19/16/13
Silicon	ppm	3	3	2	1
Sodium	ppm	4	2	3	<1
Potassium	ppm	0	0	0	0

Diagnosis

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a light 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	10	5	10	4
Copper	ppm	4	3	6	2
Lead	ppm	0	0	<1	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	4	<1	<1	<1
Chromium	ppm	2	2	5	0
Molybdenum	ppm	0	<1	<1	2
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	149	85	62	75
Magnesium	ppm	2	2	1	8
Zinc	ppm	432	424	374	422
Phosphorus	ppm	364	338	306	347
Barium	ppm	0	0	0	0
Boron	ppm	<1	0	0	2

Depot: VOLVO0093
Unique No: 10656453
Signed: Wes Davis
Report Date: 20 Sep 2023

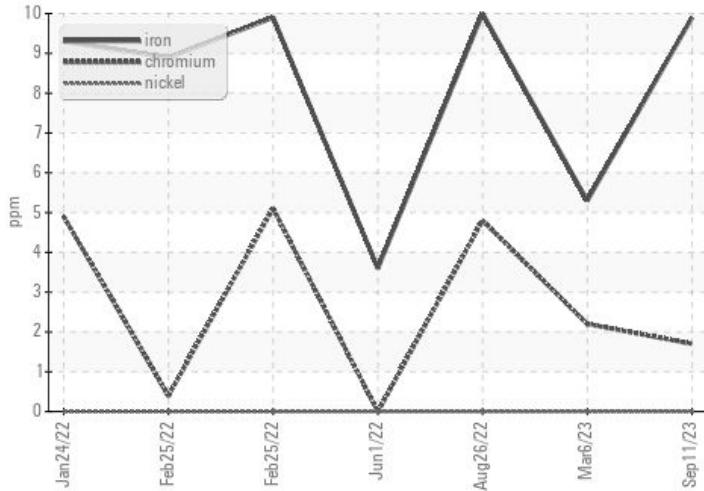


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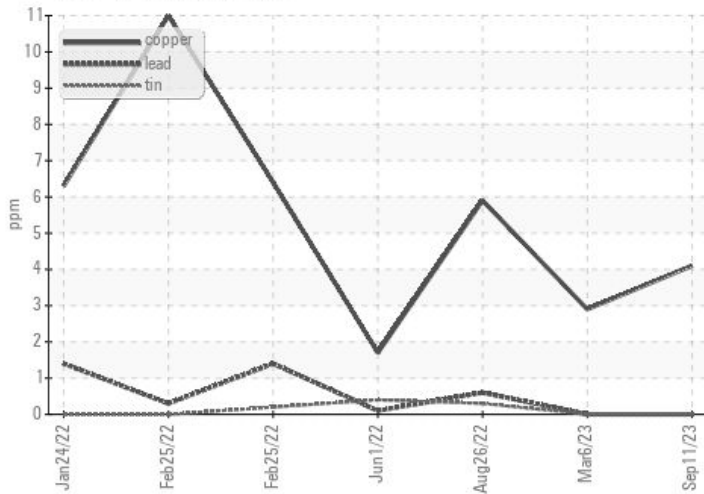


GRAPHS

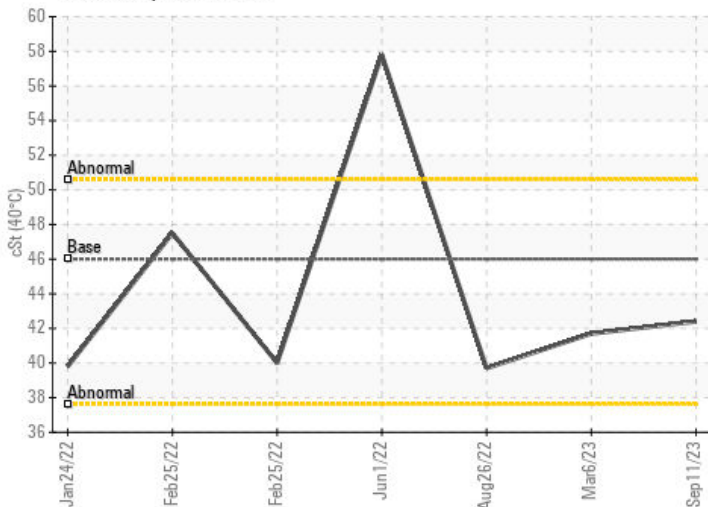
Ferrous Alloys



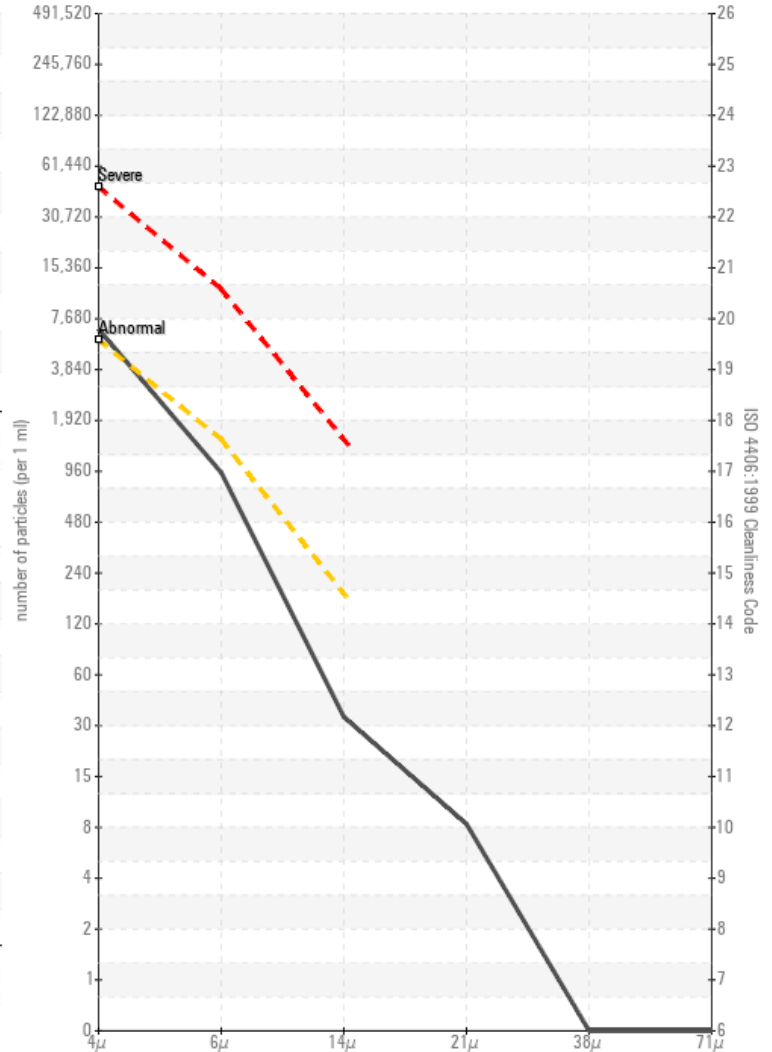
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

