



CONSTRUCTION EQUIPMENT

VOLVO L180H 5290 - HYDRAULIC SYSTEM



Sample No: VCP343276

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP343276	VCP377264	VCP377136	VCP337156
Sample Date	19 Jun 2023	13 Mar 2023	21 Nov 2022	07 Sep 2022
Machine Hours	5464	4934	4347	3911
Oil Hours	1117	587	2137	1701
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	SEVERE	ABNORMAL	ABNORMAL	ABNORMAL

SCHILDBERG CONSTRUCTION COMPANY

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OIL CONDITION

Visc @ 40°C	cSt	39.3	39.6	39.2	39.7
Acid Number (AN)	mg KOH/g	0.64	0.65	0.38	0.41



CONTAMINATION

Particles >4µm	47340	34474	54510	71138	
Particles >6µm	16002	8160	18261	18288	
Particles >14µm	1540	335	713	697	
ISO 4406:1999 (c)	23/21/18	22/20/16	23/21/17	23/21/17	
Silicon	ppm	10	11	8	6
Sodium	ppm	3	<1	5	<1
Potassium	ppm	1	1	0	2

Diagnosis

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. All component wear rates are normal. There is a high amount of particulates (2 to 100 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



WEAR METALS

Iron	ppm	3	10	2	3
Copper	ppm	3	4	7	6
Lead	ppm	<1	1	3	2
Tin	ppm	<1	0	2	<1
Aluminum	ppm	2	2	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	2	4	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	2207	2034	1376	1288
Magnesium	ppm	17	15	13	9
Zinc	ppm	897	815	764	696
Phosphorus	ppm	716	657	599	559
Barium	ppm	0	0	0	1
Boron	ppm	0	5	<1	0

Depot: SCHGRE
Unique No: 10545868
Signed: Wes Davis
Report Date: 06 Jul 2023

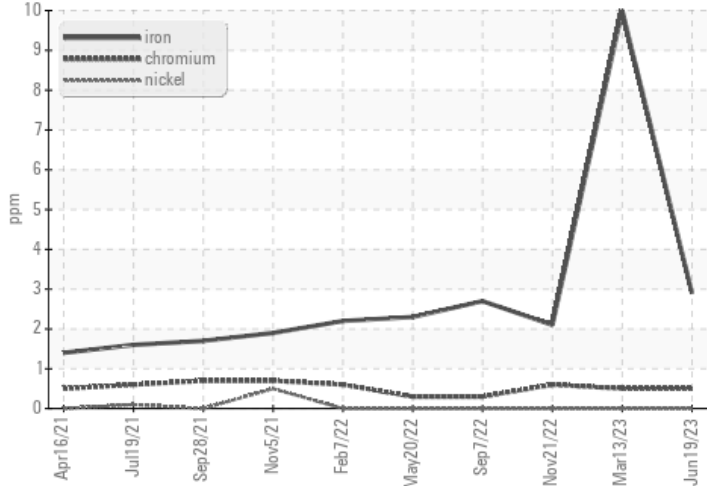


CONSTRUCTION EQUIPMENT

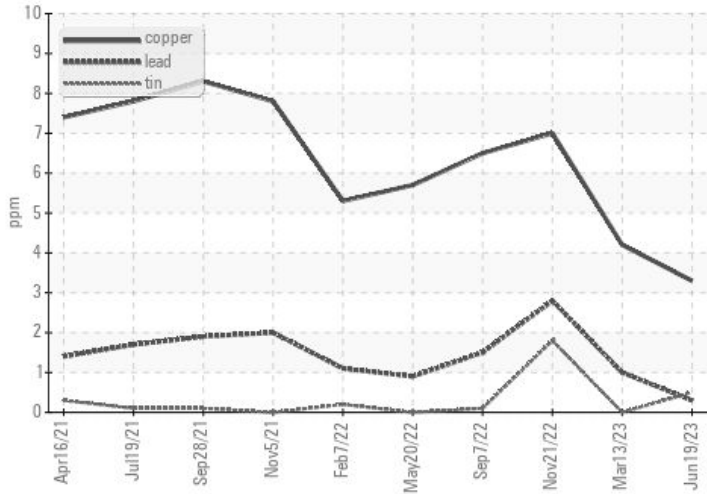


VOLVO GRAPHS

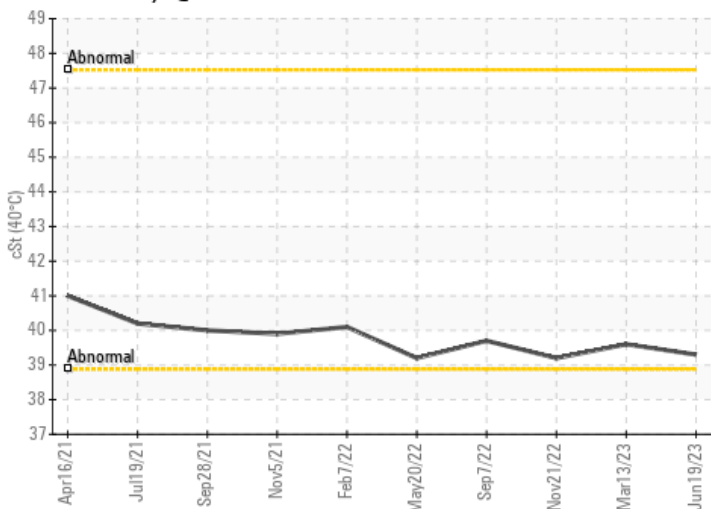
Ferrous Alloys



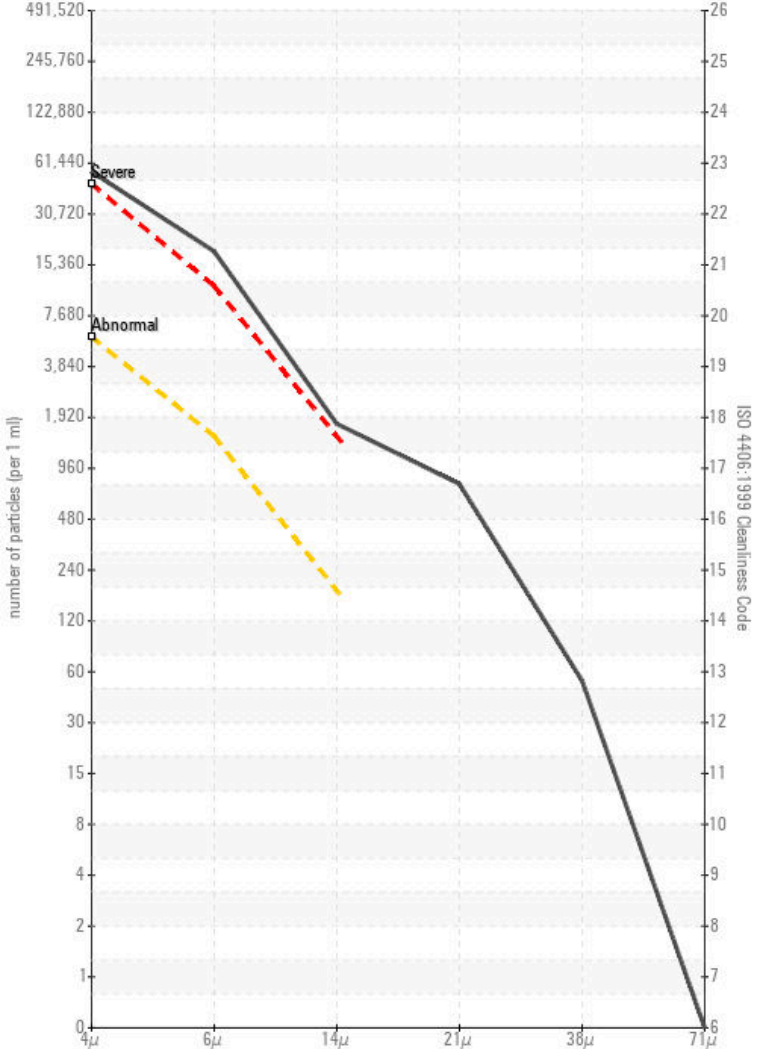
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

