



CONSTRUCTION EQUIPMENT

SPM580302 SUWANNEE VOLVO L180H 5496 - HYDRAULIC SYSTEM



Sample No: VCP412999
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM580302 SUWANNEE



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SAMPLE INFORMATION

Sample Number	VCP412999	VCP418115	VCP405148	VCP379825
Sample Date	18 Jul 2023	02 Jun 2023	14 Apr 2023	02 Nov 2022
Machine Hours	11082	10460	9652	6867
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	SEVERE	ABNORMAL	ATTENTION	ABNORMAL



OIL CONDITION

Visc @ 40°C	cSt	41.9	42.2	40.6	41.7
Acid Number (AN)	mg KOH/g	0.28	0.34	0.29	0.30



CONTAMINATION

Particles >4µm	61973	13992	7126	13838	
Particles >6µm	23017	2801	1231	1553	
Particles >14µm	3908	91	32	42	
ISO 4406:1999 (c)	23/22/19	21/19/14	20/17/12	21/18/13	
Silicon	ppm	2	2	3	2
Sodium	ppm	3	0	3	1
Potassium	ppm	0	1	0	0



WEAR METALS

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



ADDITIVES

Calcium	ppm	71	89	68	64
Magnesium	ppm	4	4	5	2
Zinc	ppm	429	433	393	410
Phosphorus	ppm	348	322	328	336
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	<1

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.

Depot: VOLVO0093
Unique No: 10565663
Signed: Wes Davis
Report Date: 24 Jul 2023

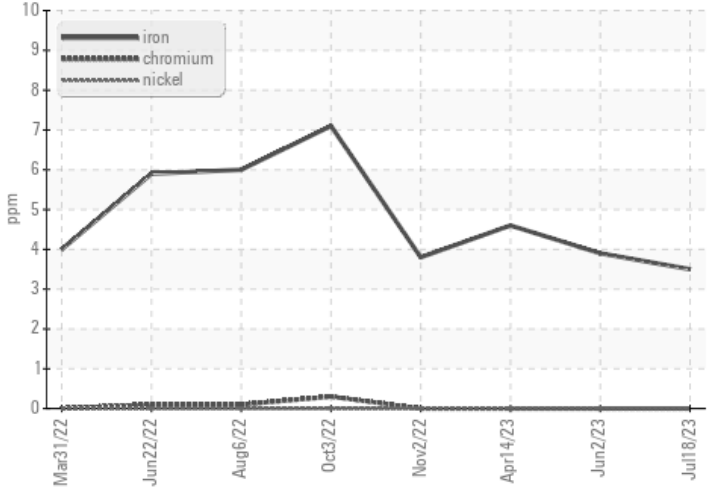


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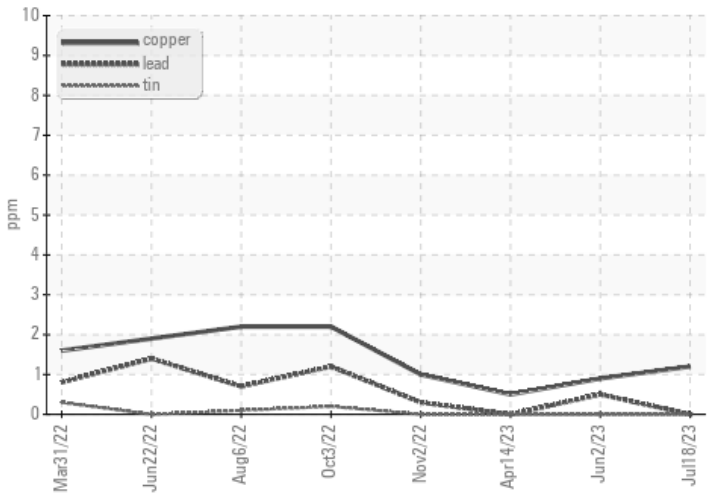


GRAPHS

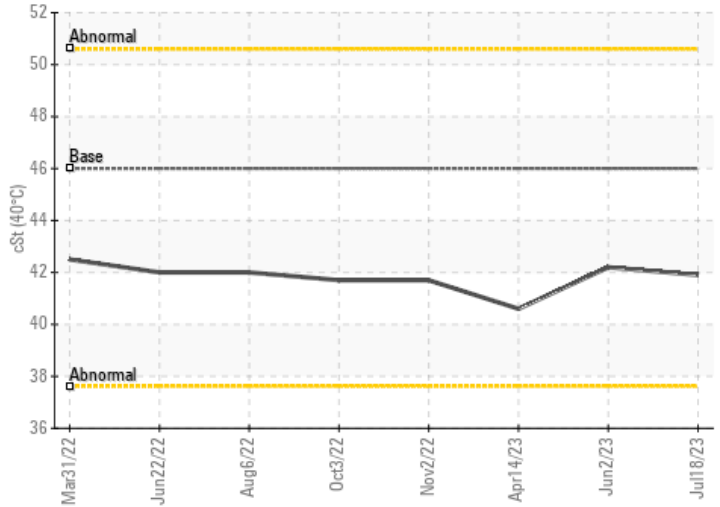
Ferrous Alloys



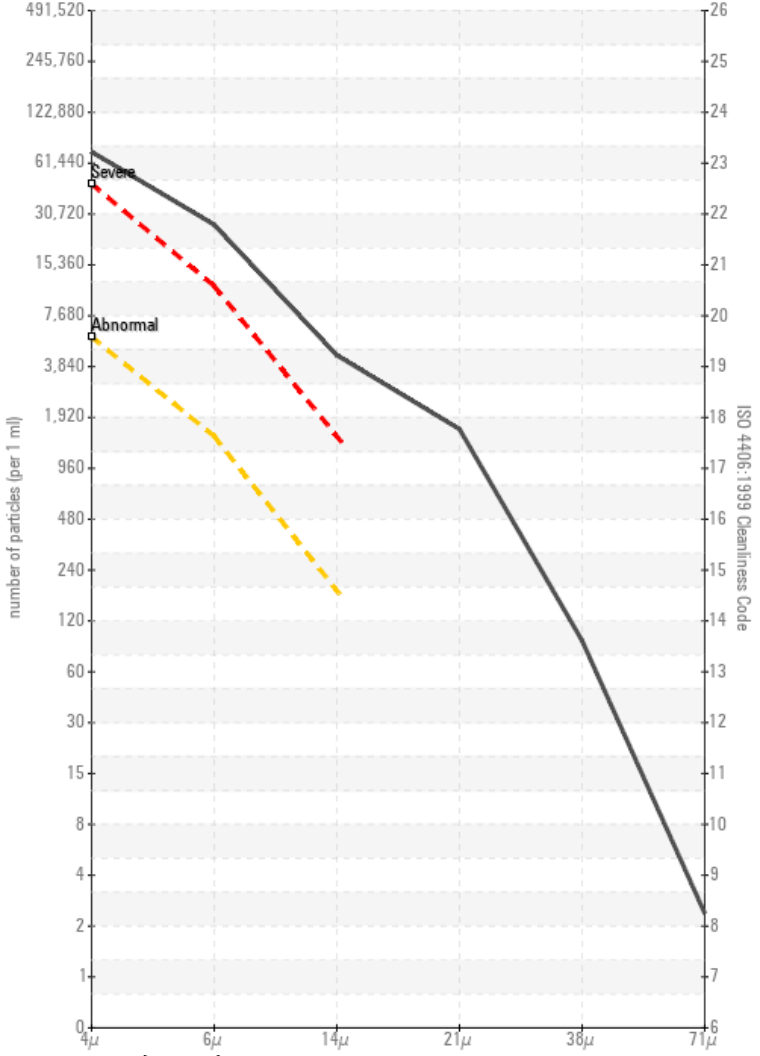
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

