



CONSTRUCTION EQUIPMENT

SPM580303 SUWANNEE VOLVO L180H 5419 - HYDRAULIC SYSTEM



Sample No: VCP413240
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM580303 SUWANNEE



SAMPLE INFORMATION

Sample Number	VCP413240	VCP418114	VCP404984	VCP398622
Sample Date	18 Jul 2023	02 Jun 2023	14 Apr 2023	14 Dec 2022
Machine Hours	9778	9285	8764	7772
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	46.7	46.9	46.7	47.1
Acid Number (AN)	mg KOH/g	0.27	0.22	0.27	0.27



CONTAMINATION

Particles >4µm		13331	1479	2183	1562
Particles >6µm		2591	289	335	418
Particles >14µm		72	15	14	21
ISO 4406:1999 (c)		21/19/13	18/15/11	18/16/11	18/16/12
Silicon	ppm	2	2	2	2
Sodium	ppm	4	0	1	1
Potassium	ppm	0	1	0	<1

Diagnosis

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 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	4	5	3	4
Copper	ppm	2	2	2	2
Lead	ppm	0	1	0	1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	<1	0	<1	2
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	1	2	2	2
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	1
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	<1	0	0	<1



ADDITIVES

Calcium	ppm	205	209	178	197
Magnesium	ppm	6	7	7	7
Zinc	ppm	462	478	441	477
Phosphorus	ppm	378	353	365	352
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	1

Depot: VOLVO0093
Unique No: 10565664
Signed: Wes Davis
Report Date: 24 Jul 2023

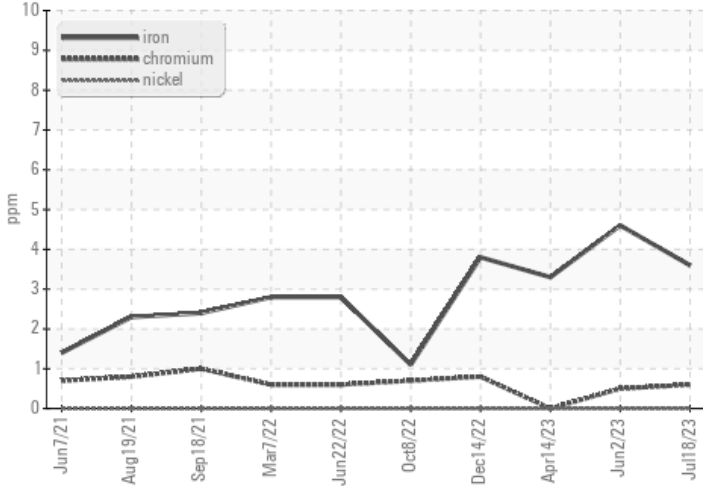


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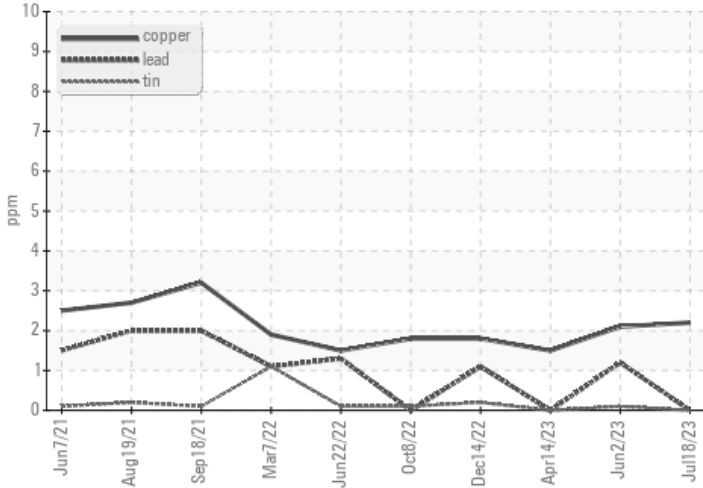


GRAPHS

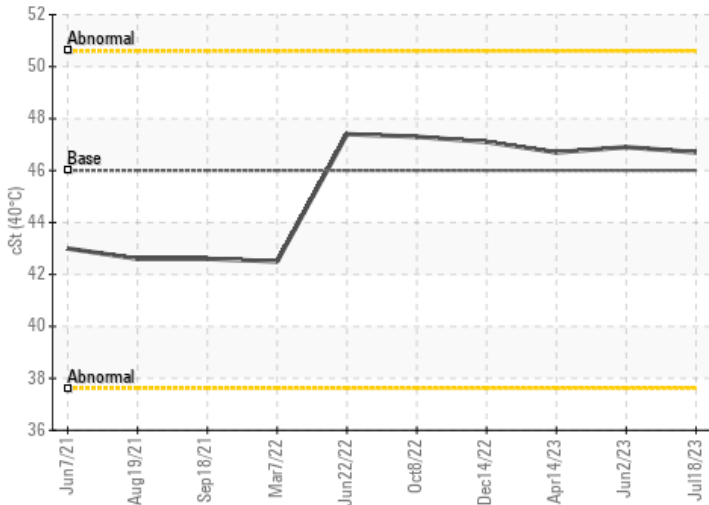
Ferrous Alloys



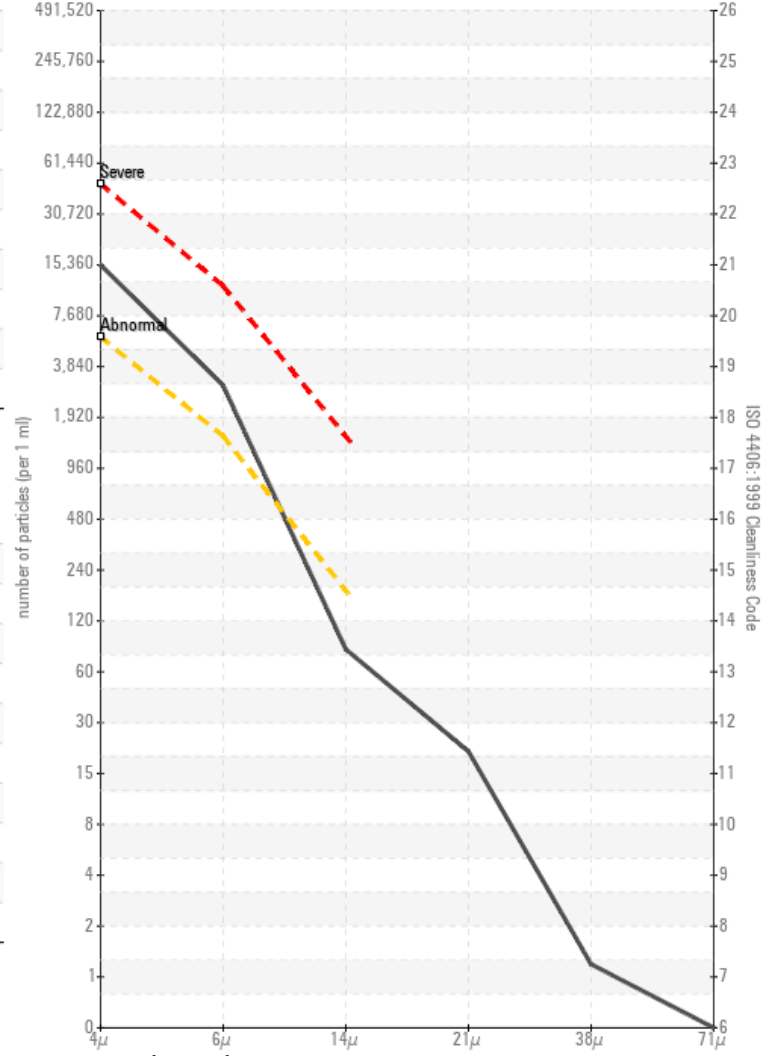
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

