



CONSTRUCTION EQUIPMENT

SPM595753 WM CRYSTAL VOLVO L150F 14630 - HYDRAULIC SYSTEM



Sample No: VCP413971
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM595753 WM CRYSTAL



SAMPLE INFORMATION

Sample Number	VCP413971	VCP383237	VCP372561	VCP348905
Sample Date	12 Sep 2023	24 Feb 2023	22 Aug 2022	15 Feb 2022
Machine Hours	15416	15388	15339	15249
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	SEVERE	ABNORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	43.2	43.4	43.5	43.7
Acid Number (AN)	mg KOH/g	0.37	0.34	0.39	0.34

CONTAMINATION

Particles >4µm		47587	14708	10093	19226
Particles >6µm		8704	2241	597	1595
Particles >14µm		139	103	21	36
ISO 4406:1999 (c)		23/20/14	21/18/14	21/16/12	21/18/12
Silicon	ppm	1	2	1	1
Sodium	ppm	<1	<1	1	0
Potassium	ppm	<1	0	0	0

Diagnosis

Check seals and/or filters for points of contaminant entry. 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. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. All component wear rates are normal. There is a high 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	2	3	2	1
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	<1	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	<1	0	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	0	0	0	0
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	44	50	50	60
Magnesium	ppm	2	3	0	2
Zinc	ppm	457	423	438	449
Phosphorus	ppm	365	337	353	383
Barium	ppm	0	0	<1	0
Boron	ppm	0	0	<1	0

Depot: VOLVO8885
Unique No: 10658211
Signed: Wes Davis
Report Date: 22 Sep 2023

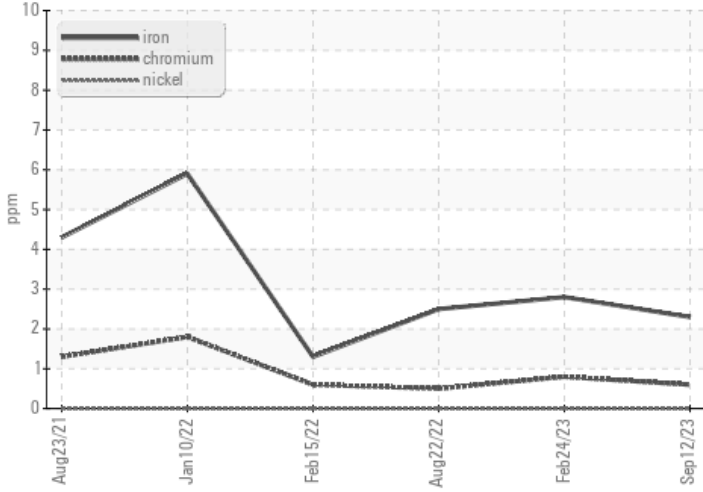


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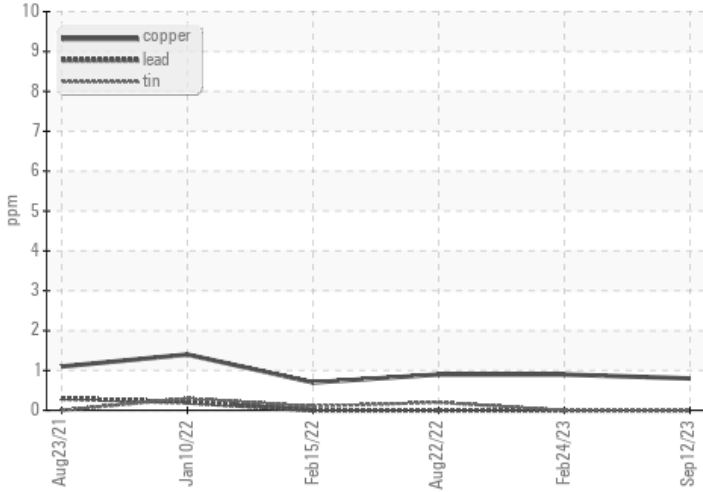


GRAPHS

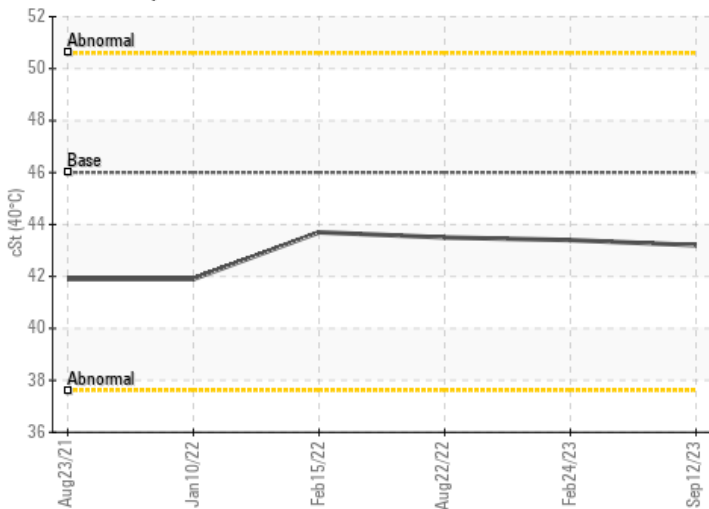
Ferrous Alloys



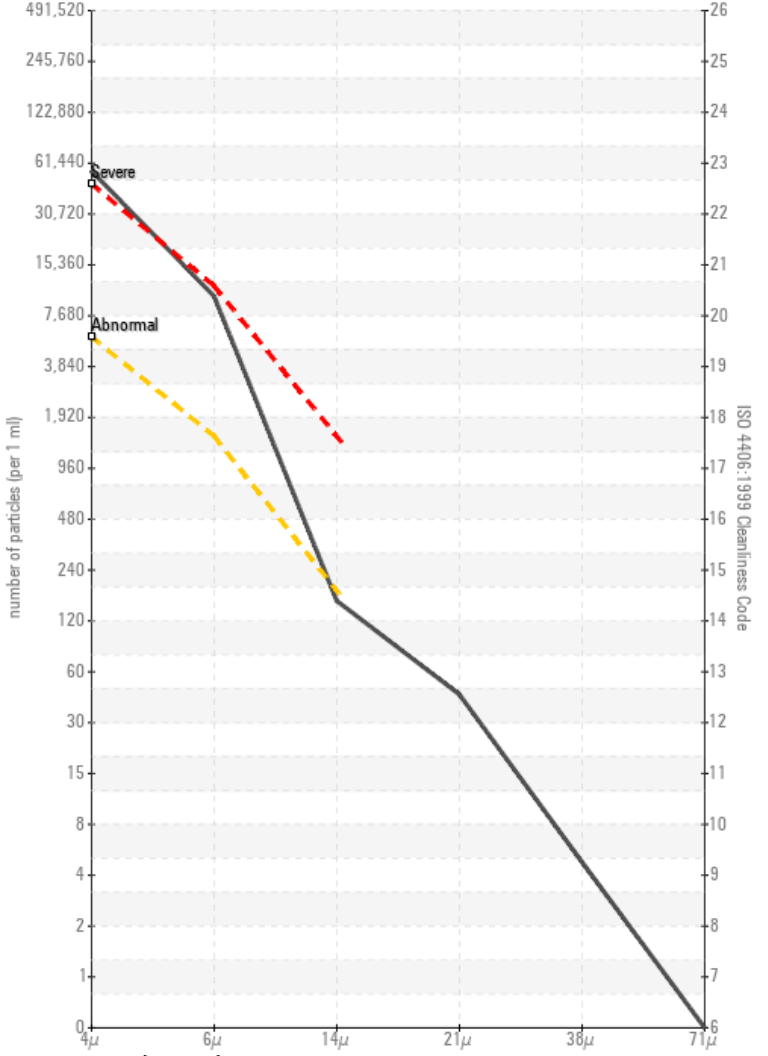
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

