



CONSTRUCTION EQUIPMENT

SPM606023 VOLVO L150H 6945 - HYDRAULIC SYSTEM



Sample No: VCP432773
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM606023



SAMPLE INFORMATION

Sample Number	VCP432773	VCP408194	VCP376665	VCP351686
Sample Date	05 Sep 2023	30 Mar 2023	16 Aug 2022	15 Feb 2022
Machine Hours	6908	5534	3798	2630
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	ABNORMAL	ATTENTION	ABNORMAL

ORANGE COUNTY SOLID WASTE
 5901 YOUNG PINE ROAD
 ORLANDO, FL
 US 32829
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OIL CONDITION

Visc @ 40°C	cSt	42.6	43.3	44.1	42.9
Acid Number (AN)	mg KOH/g	0.46	0.49	0.47	0.38



CONTAMINATION

Particles >4µm	21964	11739	9356	15801	
Particles >6µm	1705	1728	483	1864	
Particles >14µm	58	64	14	118	
ISO 4406:1999 (c)	22/18/13	21/18/13	20/16/11	21/18/14	
Silicon	ppm	5	5	4	1
Sodium	ppm	4	6	5	2
Potassium	ppm	2	2	2	1

Diagnosis

The filter change at the time of sampling has been noted. 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	8	8	5	3
Copper	ppm	5	5	3	3
Lead	ppm	3	2	3	4
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	2	2	<1	<1
Chromium	ppm	5	3	2	2
Molybdenum	ppm	6	8	7	0
Nickel	ppm	<1	0	0	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	402	566	510	56
Magnesium	ppm	21	28	23	2
Zinc	ppm	516	543	549	457
Phosphorus	ppm	418	453	436	376
Barium	ppm	0	0	<1	0
Boron	ppm	0	8	11	0

Depot: ORAORL
Unique No: 10648654
Signed: Wes Davis
Report Date: 18 Sep 2023

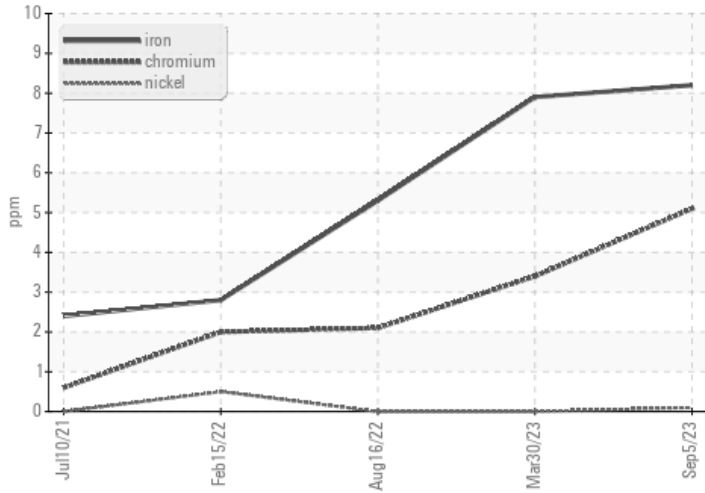


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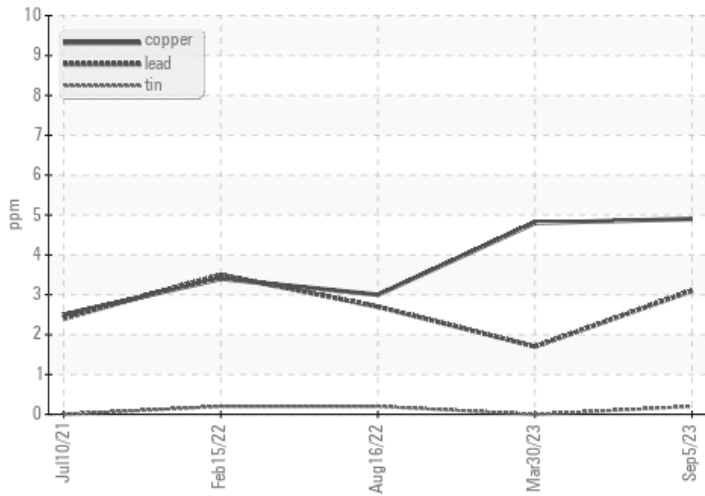


VOLVO GRAPHS

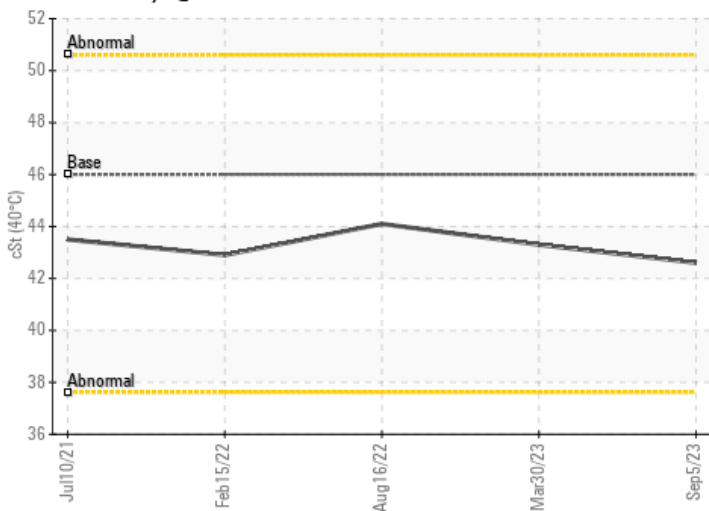
Ferrous Alloys



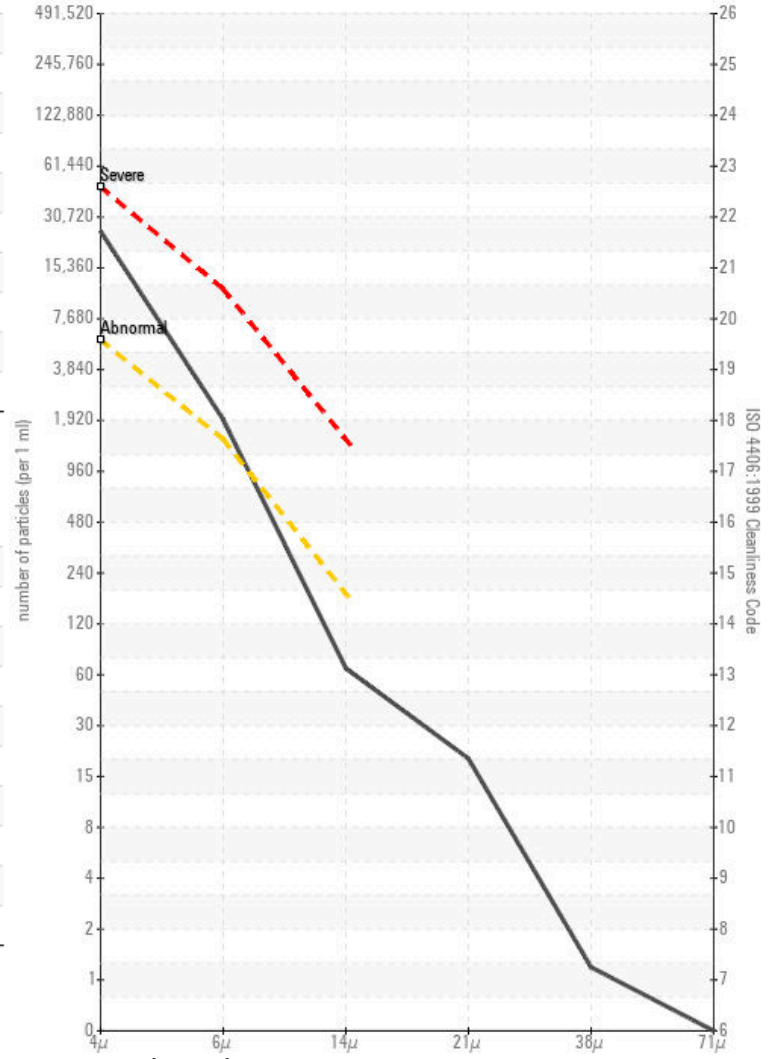
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

