



CONSTRUCTION EQUIPMENT

VOLVO L150H 4375 - HYDRAULIC SYSTEM



Sample No: VCP442922
Oil Type: ESSO NUTO H ISO 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP442922	VCP416560	VCP403880	VCP390142
Sample Date	22 Nov 2023	07 Aug 2023	15 May 2023	09 Mar 2023
Machine Hours	11007	10788	10497	10236
Oil Hours	1026	807	500	255
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	44.2	43.2	43.9	43.6
Acid Number (AN)	mg KOH/g	0.44	0.39	0.40	0.39

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		2835	384	849	2147
Particles >6µm		487	104	299	945
Particles >14µm		40	12	18	125
ISO 4406:1999 (c)		19/16/12	16/14/11	17/15/11	18/17/14
Silicon	ppm	3	4	2	4
Sodium	ppm	1	2	1	1
Potassium	ppm	1	0	<1	0

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

WEAR METALS

Iron	ppm	<1	14	2	1
Copper	ppm	0	4	<1	<1
Lead	ppm	1	4	0	<1
Tin	ppm	<1	<1	0	0
Aluminum	ppm	0	11	<1	<1
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	<1	2	2	2
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	<1	0	<1

ADDITIVES

Calcium	ppm	395	347	410	435
Magnesium	ppm	8	5	9	13
Zinc	ppm	521	427	524	544
Phosphorus	ppm	407	371	412	439
Barium	ppm	0	0	0	0
Boron	ppm	2	2	2	2

Depot: MARDIC
Unique No: 10762505
Signed: Wes Davis
Report Date: 28 Nov 2023

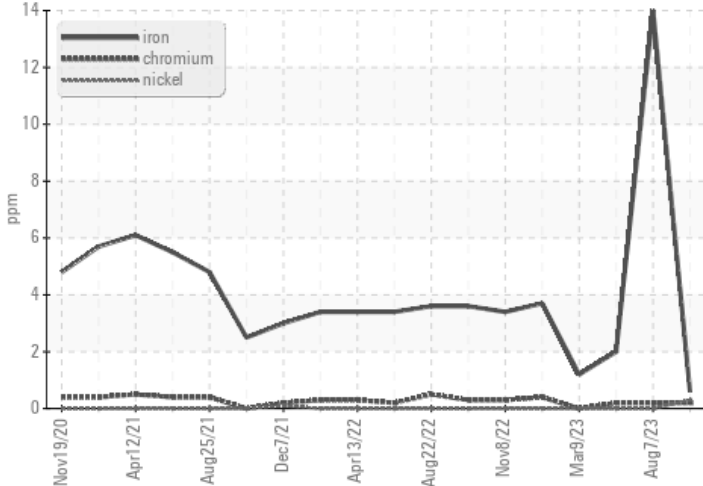


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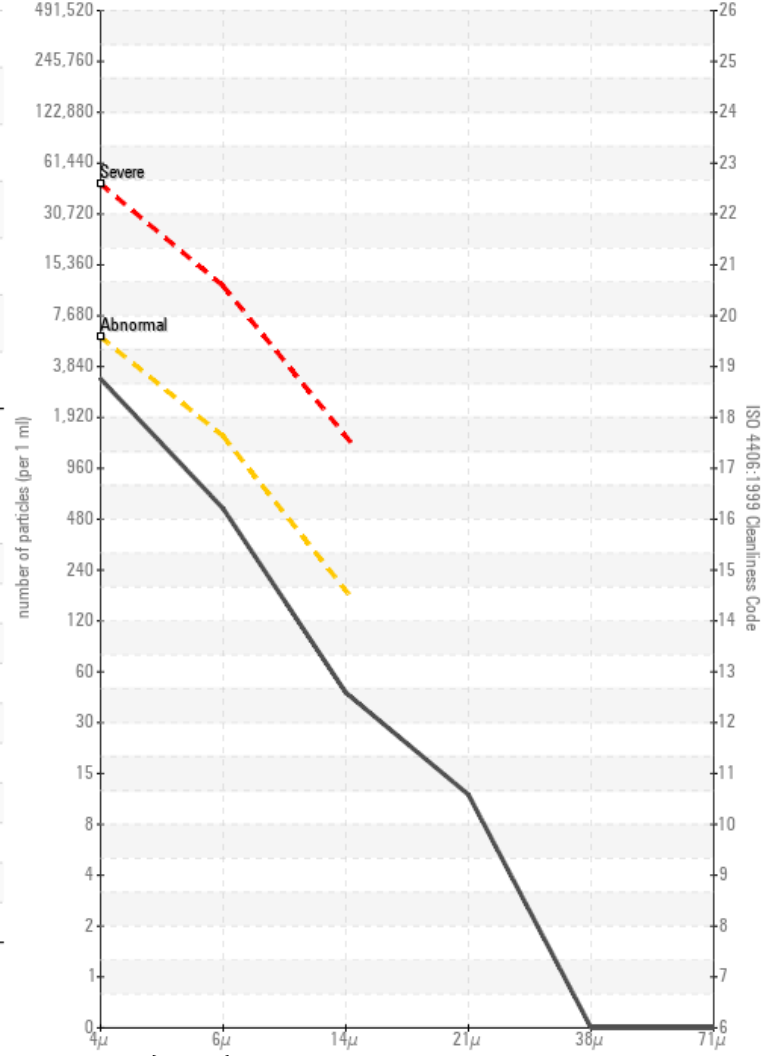


VOLVO GRAPHS

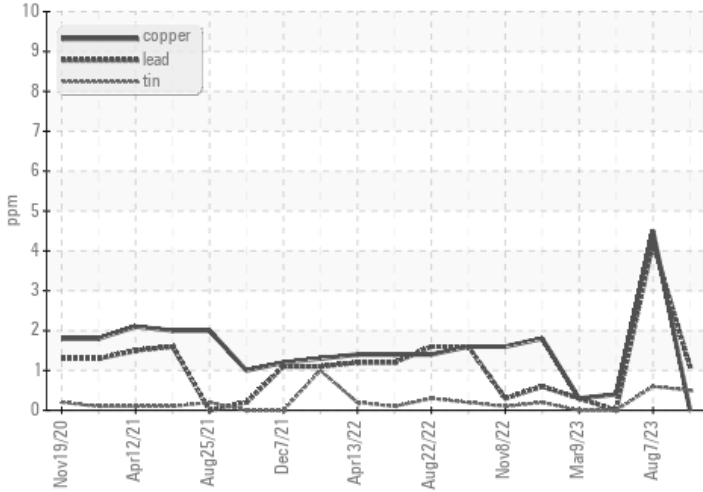
Ferrous Alloys



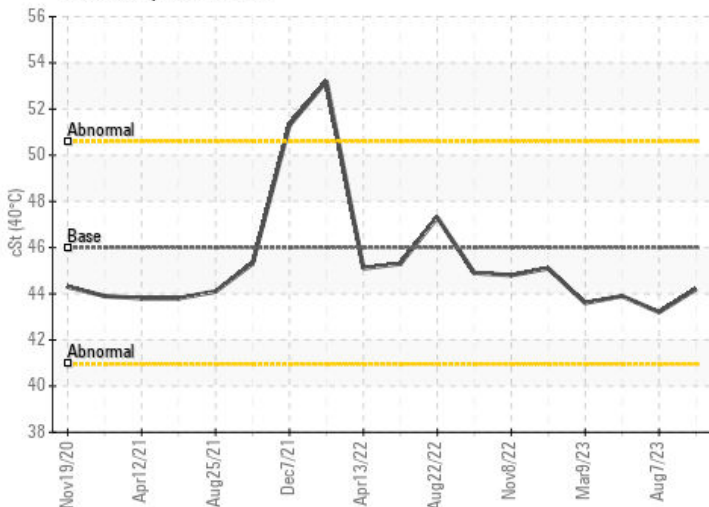
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

