



CONSTRUCTION EQUIPMENT

VOLVO L150H 4375 - HYDRAULIC SYSTEM



Sample No: VCP416560
Oil Type: ESSO NUTO H ISO 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP416560	VCP403880	VCP390142	VCP383673
Sample Date	07 Aug 2023	15 May 2023	09 Mar 2023	29 Dec 2022
Machine Hours	10788	10497	10236	9981
Oil Hours	807	500	255	2000
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	43.2	43.9	43.6	45.1
Acid Number (AN)	mg KOH/g	0.39	0.40	0.39	0.53

CONTAMINATION

Particles >4µm		384	849	2147	3408
Particles >6µm		104	299	945	437
Particles >14µm		12	18	125	43
ISO 4406:1999 (c)		16/14/11	17/15/11	18/17/14	19/16/13
Silicon	ppm	4	2	4	6
Sodium	ppm	2	1	1	1
Potassium	ppm	0	<1	0	0

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. Silt level is normal. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

WEAR METALS

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

ADDITIVES

Calcium	ppm	347	410	435	772
Magnesium	ppm	5	9	13	15
Zinc	ppm	427	524	544	562
Phosphorus	ppm	371	412	439	469
Barium	ppm	0	0	0	0
Boron	ppm	2	2	2	5

Depot: MARDIC
Unique No: 10602751
Signed: Don Baldrige
Report Date: 14 Aug 2023

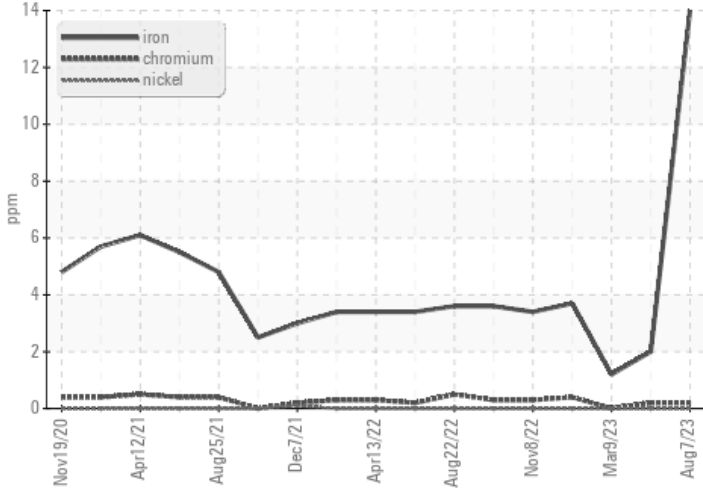


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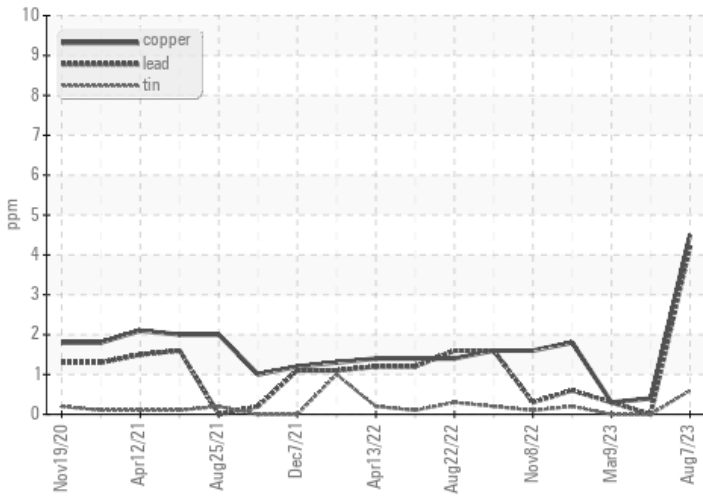


GRAPHS

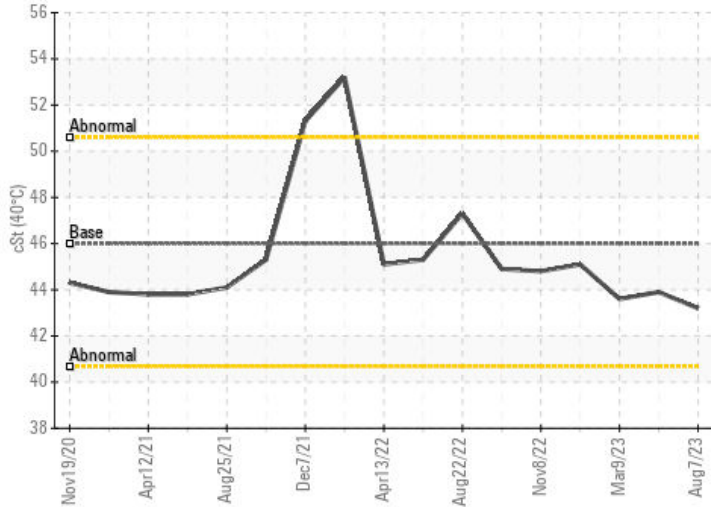
Ferrous Alloys



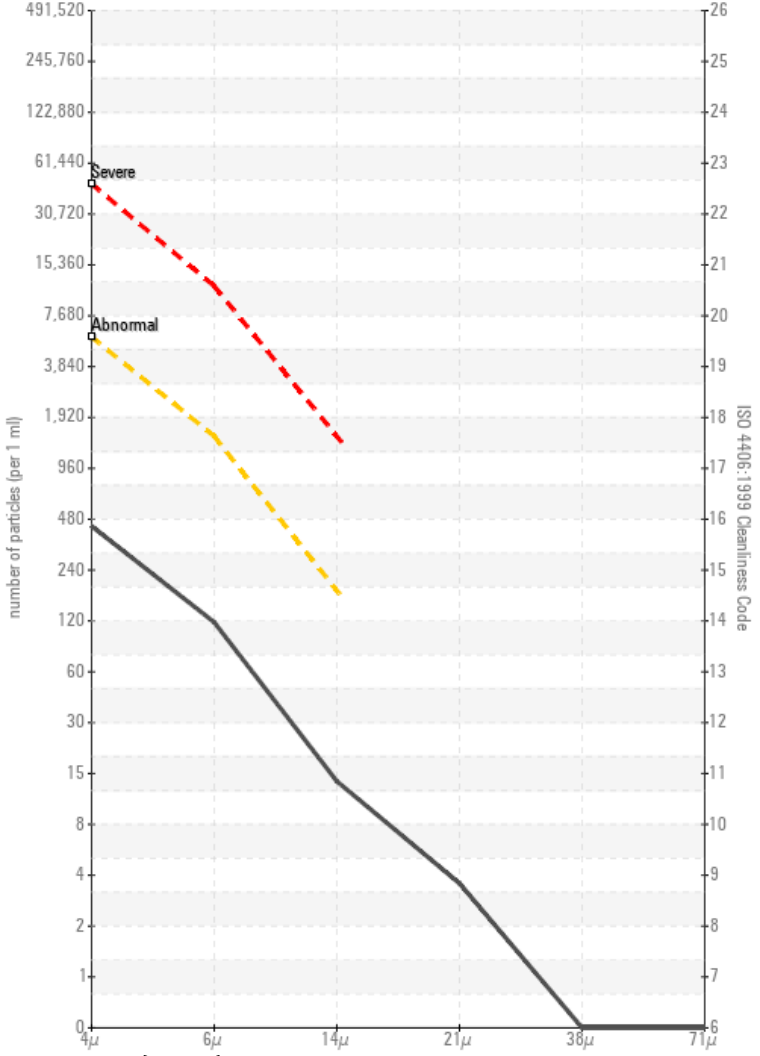
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

