



CONSTRUCTION EQUIPMENT

W14797 VOLVO L110H 5555 - HYDRAULIC SYSTEM



Sample No: VCP435131
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: W14797



SAMPLE INFORMATION

Sample Number	VCP435131	VCP406594	VCP375302	VCP280361
Sample Date	16 Oct 2023	18 Jul 2023	01 Sep 2022	14 Jun 2022
Machine Hours	3042	2585	1024	588
Oil Hours	1000	0	1000	500
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	NORMAL	ATTENTION	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	42.1	42.2	42.7	43.1
Acid Number (AN)	mg KOH/g	0.26	0.27	0.32	0.34

CONTAMINATION

Particles >4µm		7348	5580	4842	4056
Particles >6µm		1307	1590	1207	1046
Particles >14µm		78	▲ 112	133	99
ISO 4406:1999 (c)		20/18/13	20/18/14	19/17/14	19/17/14
Silicon	ppm	2	2	2	2
Sodium	ppm	2	0	<1	0
Potassium	ppm	2	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	3	2	1
Copper	ppm	3	3	2	2
Lead	ppm	2	1	1	<1
Tin	ppm	<1	0	<1	0
Aluminum	ppm	<1	<1	<1	0
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	<1	<1
Manganese	ppm	<1	0	0	0
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	53	56	51	59
Magnesium	ppm	3	<1	<1	0
Zinc	ppm	475	438	456	475
Phosphorus	ppm	346	333	331	407
Barium	ppm	0	2	0	0
Boron	ppm	0	0	0	0

Depot: VOLVO0080
Unique No: 10709057
Signed: Wes Davis
Report Date: 24 Oct 2023

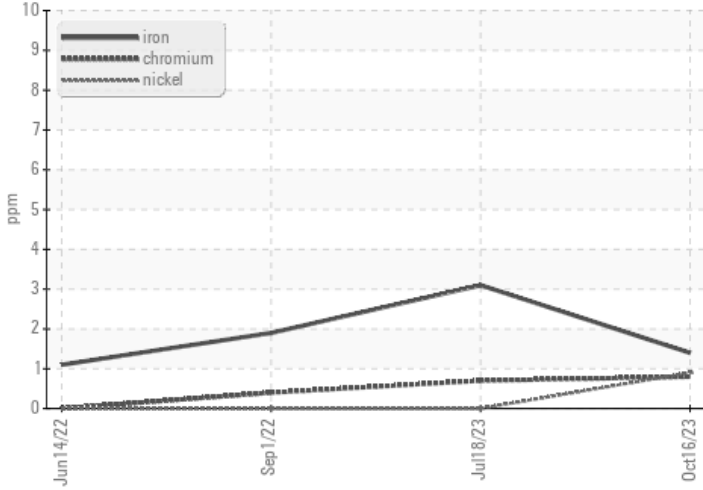


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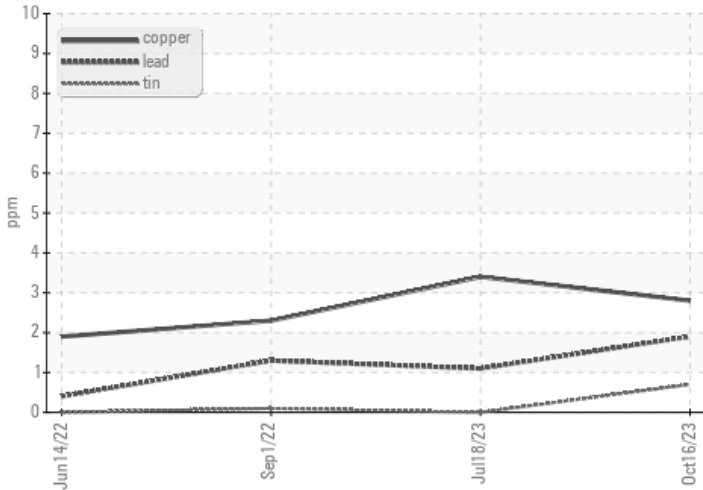


GRAPHS

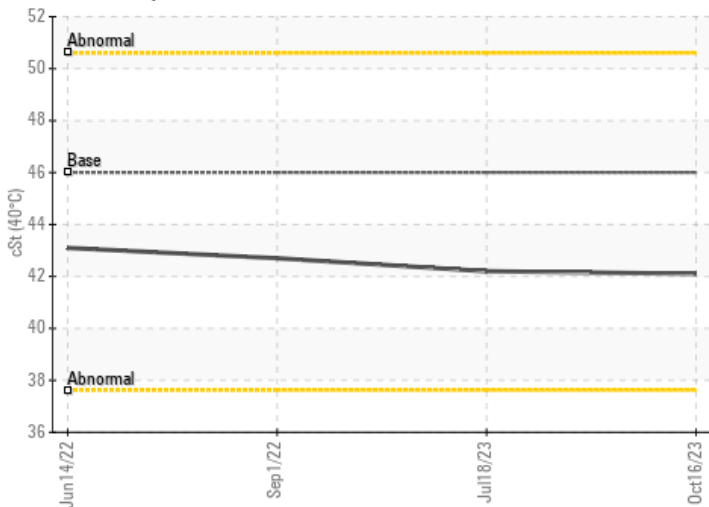
Ferrous Alloys



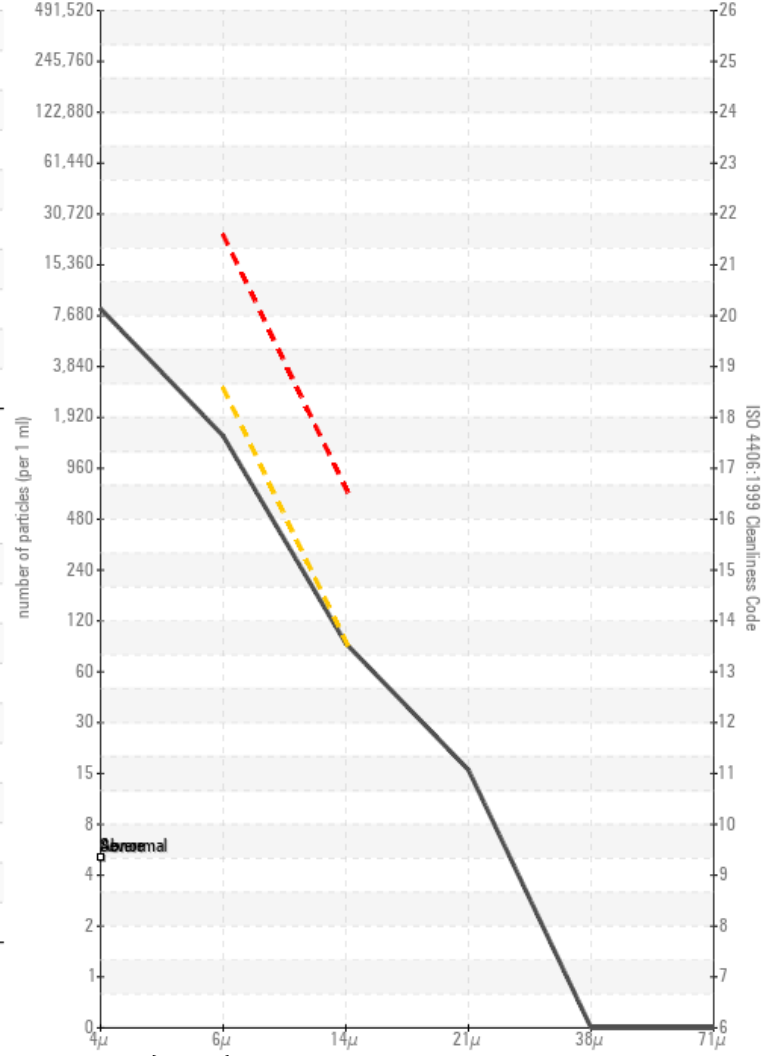
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

