



CONSTRUCTION EQUIPMENT

9941 VOLVO L70G 614340 - HYDRAULIC SYSTEM



Sample No: VCP388545
Oil Type: CHEVRON HYDRAULIC OIL AW ISO 46
Job No: 9941



SAMPLE INFORMATION

Sample Number	VCP388545	VCP290941	VCP220407	VCP196119
Sample Date	20 Nov 2023	06 Nov 2020	30 Oct 2018	07 Jun 2016
Machine Hours	12078	9117	5998	2300
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



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 F:



OIL CONDITION

Visc @ 40°C	cSt	45.0	43.6	43.93	44.2
Acid Number (AN)	mg KOH/g	0.26	0.297	0.637	0.404



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		2949	2383	2684	88
Particles >6µm		231	478	323	48
Particles >14µm		13	49	11	8
ISO 4406:1999 (c)		19/15/11	18/16/13	19/16/11	14/13/10
Silicon	ppm	4	7	6	4
Sodium	ppm	<1	0	2	1
Potassium	ppm	1	<1	0	<1

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	3	8	4	11
Copper	ppm	1	4	3	3
Lead	ppm	<1	2	0	1
Tin	ppm	<1	<1	0	0
Aluminum	ppm	<1	0	<1	0
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	0	<1	<1	<1
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	0	<1	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	83	124	126	61
Magnesium	ppm	3	5	4	4
Zinc	ppm	458	449	458	378
Phosphorus	ppm	357	333	340	304
Barium	ppm	0	0	0	0
Boron	ppm	0	2	1	<1

Depot: RELMIL
Unique No: 10762507
Signed: Wes Davis
Report Date: 29 Nov 2023

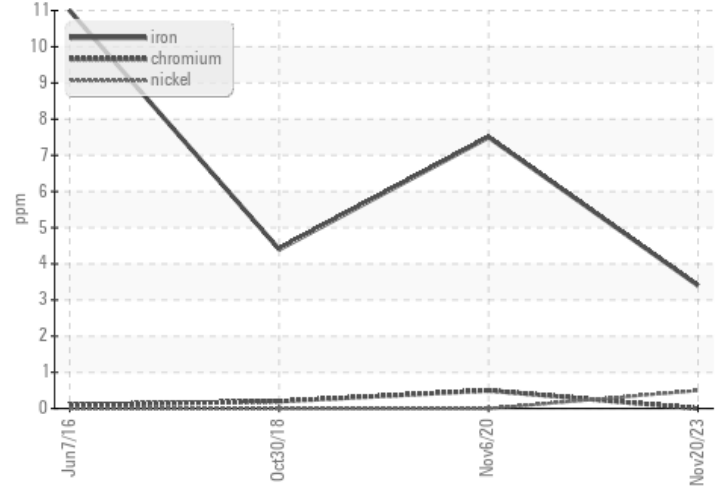


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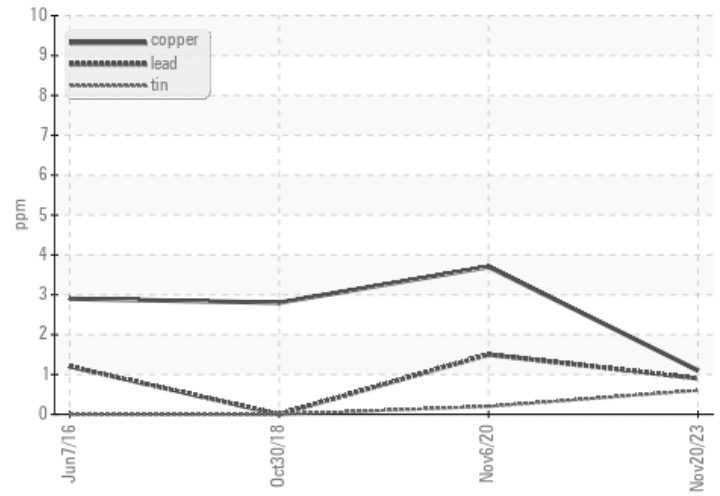


GRAPHS

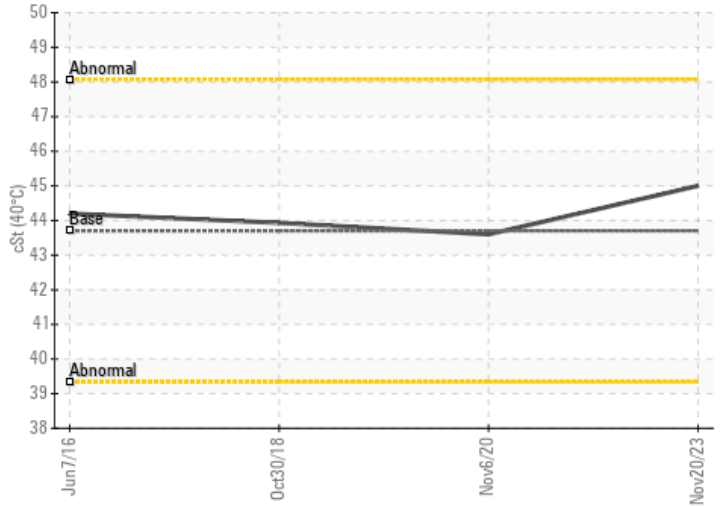
Ferrous Alloys



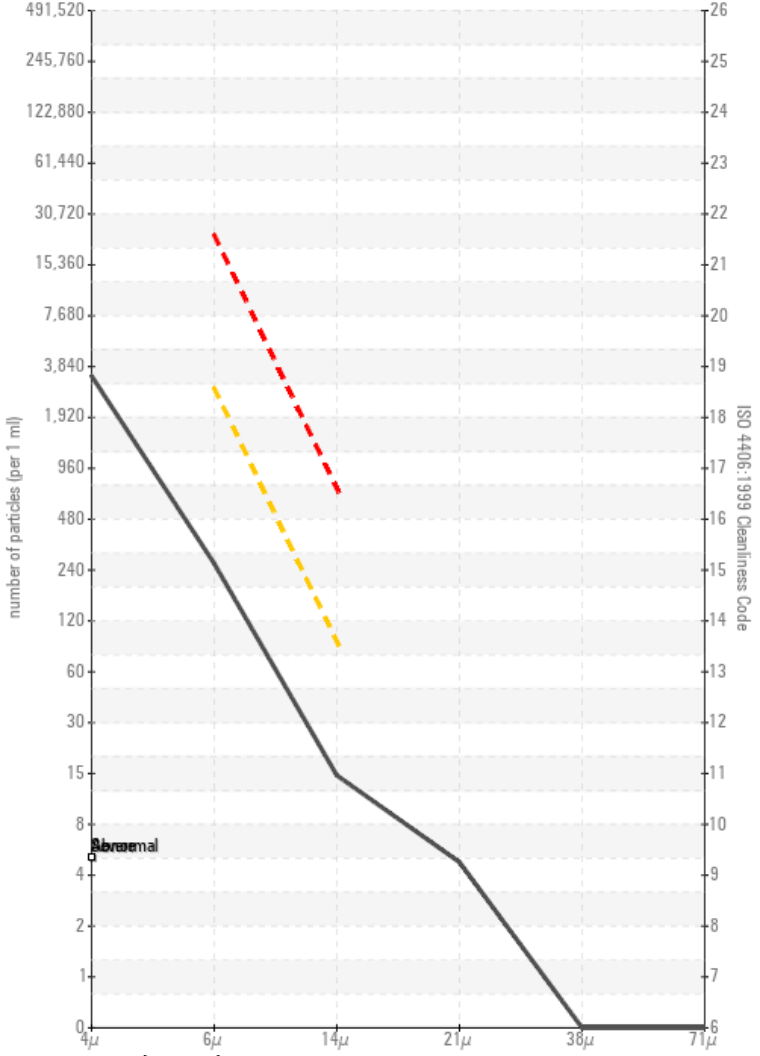
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

