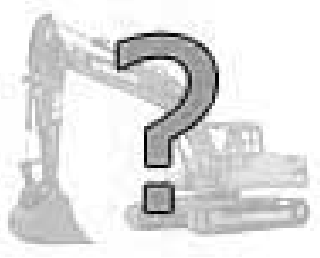
CONSTRUCTION EQUIPMENT

515270 SUPERIOR CONS TAKEUCHI TL12R2 412004923 - HYDRAULIC SYSTEM

Sample No: VCP393551
Oil Type: TAKEUCHI 10W30
Job No: 515270 SUPERIOR CONS



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SAMPLE INFORMATION

Sample Number		**VCP393551**	VCP353534	---	---
Sample Date		**28 Feb 2023**	08 Aug 2022	---	---
Machine Hours		**1308**	778	---	---
Oil Hours		**1308**	778	---	---
Oil Changed		**Changed**	Not Changd	---	---
Sample Status		**ATTENTION**	ABNORMAL	---	---

OIL CONDITION

Visc @ 40°C	cSt	**44.1**	47.1	---	---
Acid Number (AN)	mg KOH/g	**0.55**	0.72	---	---

CONTAMINATION

Water	%	**NEG**	NEG	---	---
Particles >4µm		**6492**	---	---	---
Particles >6µm		**1583**	---	---	---
Particles >14µm		**127**	---	---	---
ISO 4406:1999 (c)		**20/18/14**	---	---	---
Silicon	ppm	**5**	5	---	---
Sodium	ppm	**1**	<1	---	---
Potassium	ppm	**<1**	0	---	---

WEAR METALS

Iron	ppm	**5**	5	---	---
Copper	ppm	**11**	10	---	---
Lead	ppm	**2**	2	---	---
Tin	ppm	**<1**	1	---	---
Aluminum	ppm	**2**	3	---	---
Chromium	ppm	**0**	<1	---	---
Molybdenum	ppm	**11**	13	---	---
Nickel	ppm	**0**	<1	---	---
Titanium	ppm	**0**	0	---	---
Silver	ppm	**0**	2	---	---
Manganese	ppm	**<1**	<1	---	---
Vanadium	ppm	**0**	0	---	---

ADDITIVES

Calcium	ppm	**2537**	2840	---	---
Magnesium	ppm	**14**	11	---	---
Zinc	ppm	**602**	667	---	---
Phosphorus	ppm	**501**	536	---	---
Barium	ppm	**0**	0	---	---
Boron	ppm	**9**	20	---	---

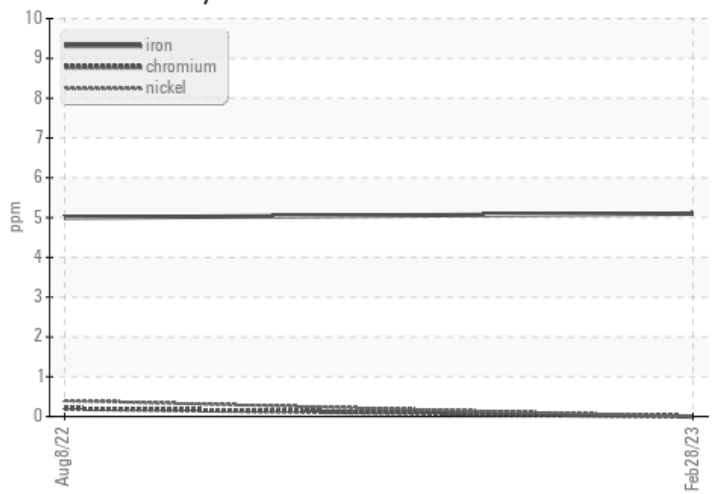
Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.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 condition of the oil is suitable for further service.

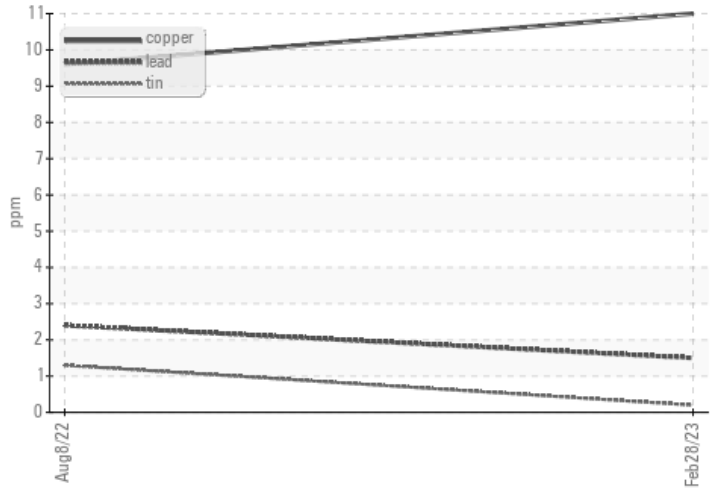
Depot: VOLVO0093
Unique No: 10376678
Signed: Doug Bogart
Report Date: 16 Mar 2023

GRAPHS

Ferrous Alloys

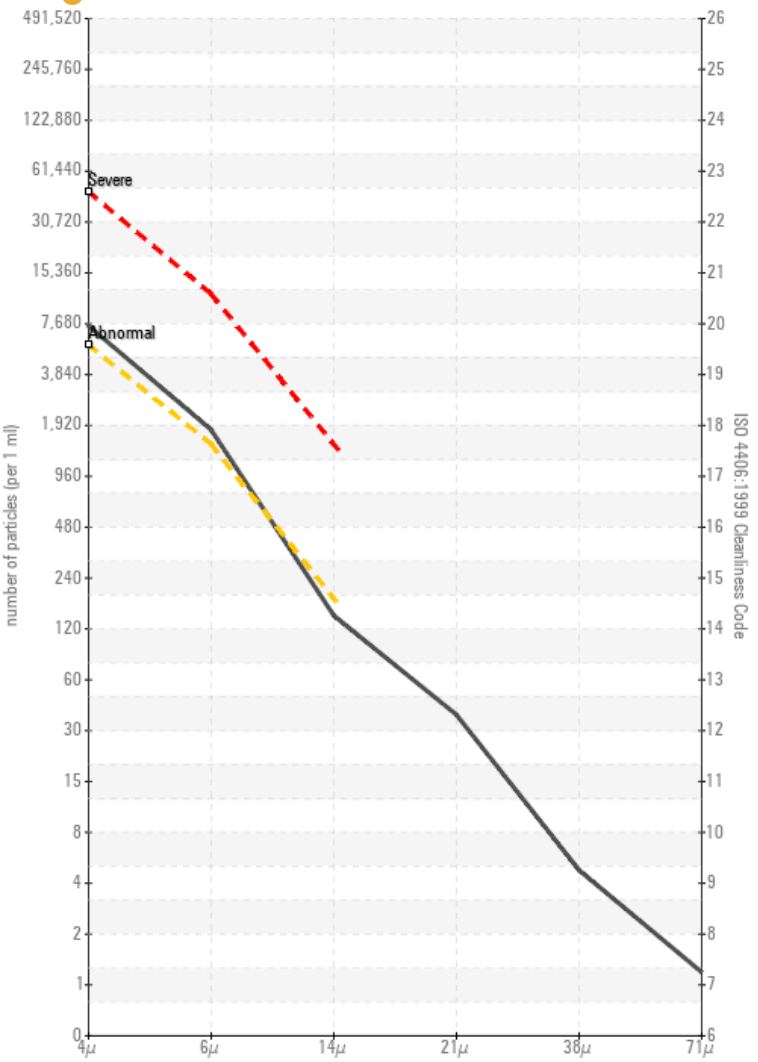


Non-ferrous Metals



Viscosity @ 40°C

Particle Count



Acid Number