



CONSTRUCTION EQUIPMENT

SPM580157 VOLVO EC380E 315082 - HYDRAULIC SYSTEM



Sample No: VCP420646
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM580157



SAMPLE INFORMATION

Sample Number	VCP420646	VCP403582	VCP366246	---
Sample Date	13 Jul 2023	16 Mar 2023	26 Aug 2022	---
Machine Hours	3213	2412	540	---
Oil Hours	0	0	0	---
Oil Changed	Not Chngd	Not Chngd	Changed	---
Sample Status	NORMAL	ATTENTION	ABNORMAL	---

UNITED SCRAP
 1545 S CICERO AVE
 CICERO, IL
 US 60804
 Contact: RON LUCHTENBURG
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 T:
 F:

OIL CONDITION

Visc @ 40°C	cSt	41.7	42.0	43.0	---
Acid Number (AN)	mg KOH/g	0.51	0.81	0.49	---

CONTAMINATION

Particles >4µm		5612	74898	120386	---
Particles >6µm		1498	8370	47558	---
Particles >14µm		98	39	3743	---
ISO 4406:1999 (c)		20/18/14	23/20/12	24/23/19	---
Silicon	ppm	2	7	1	---
Sodium	ppm	0	0	0	---
Potassium	ppm	2	<1	2	---

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	4	7	4	---
Copper	ppm	8	19	7	---
Lead	ppm	<1	<1	<1	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	0	0	<1	---
Chromium	ppm	<1	1	0	---
Molybdenum	ppm	1	2	<1	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	<1	0	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	110	1167	125	---
Magnesium	ppm	12	30	6	---
Zinc	ppm	509	834	545	---
Phosphorus	ppm	390	629	408	---
Barium	ppm	2	0	0	---
Boron	ppm	0	35	0	---

Depot: UNICICIL
Unique No: 10574231
Signed: Wes Davis
Report Date: 27 Jul 2023

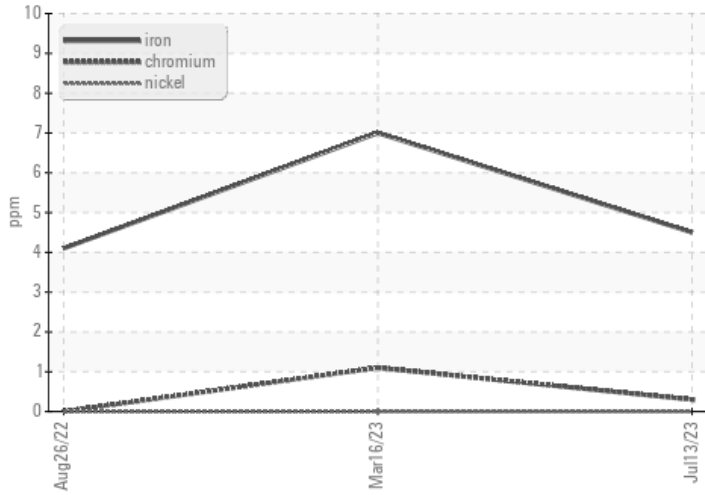


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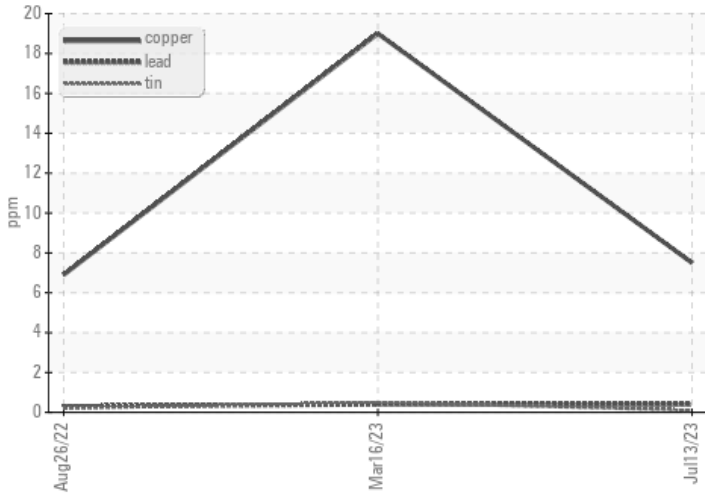


VOLVO GRAPHS

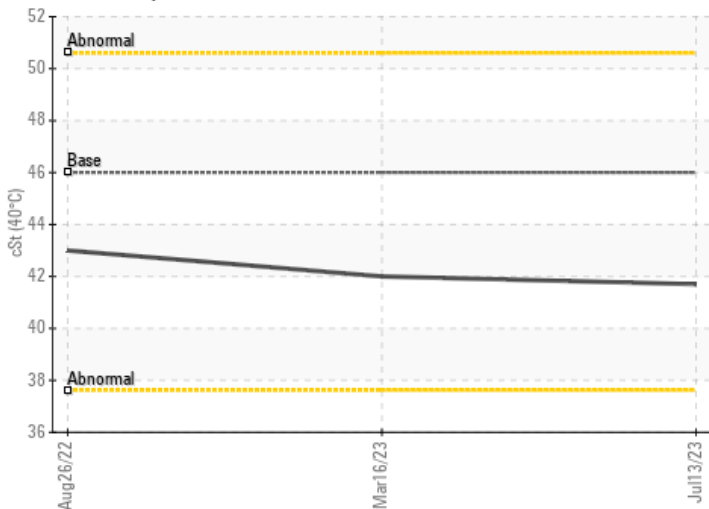
Ferrous Alloys



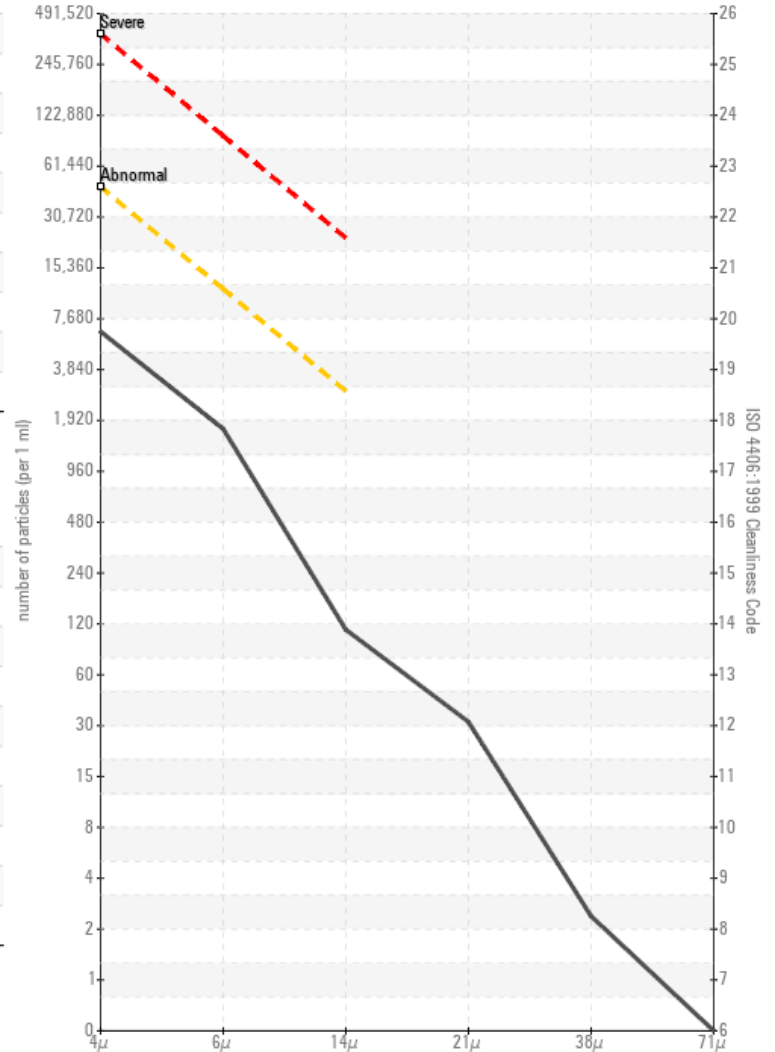
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

