



CONSTRUCTION EQUIPMENT

SPM580911 VOLVO EC250ELR 314201 - HYDRAULIC SYSTEM



Sample No: VCP382557
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM580911



SAMPLE INFORMATION

Sample Number	VCP382557	VCP357352	VCP351242	---
Sample Date	21 Jul 2023	02 Apr 2022	19 Jan 2022	---
Machine Hours	2533	527	2110	---
Oil Hours	0	0	500	---
Oil Changed	Not Chngd	Not Chngd	Not Chngd	---
Sample Status	NORMAL	SEVERE	ABNORMAL	---

BELSON STEEL
 1685 N STATE RTE 50
 BOURBONNAIS, IL
 US 60914
 Contact: M. POZAN
 mpozan@belsonsteel.com
 T: (815)932-7416
 F:



OIL CONDITION

Visc @ 40°C	cSt	42.3	43.0	42.8	---
Acid Number (AN)	mg KOH/g	1.00	0.44	0.369	---



CONTAMINATION

Particles >4µm		4483	321660	100757	---
Particles >6µm		592	149951	9576	---
Particles >14µm		50	86	196	---
ISO 4406:1999 (c)		19/16/13	26/24/14	24/20/15	---
Silicon	ppm	13	4	2	---
Sodium	ppm	0	0	<1	---
Potassium	ppm	0	0	0	---

Diagnosis

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



WEAR METALS

Iron	ppm	6	121	6	---
Copper	ppm	9	10	24	---
Lead	ppm	0	0	<1	---
Tin	ppm	<1	0	<1	---
Aluminum	ppm	2	2	<1	---
Chromium	ppm	<1	2	<1	---
Molybdenum	ppm	9	<1	<1	---
Nickel	ppm	0	<1	0	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	0	<1	---
Manganese	ppm	<1	2	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	926	122	98	---
Magnesium	ppm	86	4	<1	---
Zinc	ppm	630	489	466	---
Phosphorus	ppm	555	424	388	---
Barium	ppm	0	0	0	---
Boron	ppm	18	4	2	---

Depot: BELBOU
Unique No: 10586401
Signed: Jonathan Hester
Report Date: 04 Aug 2023

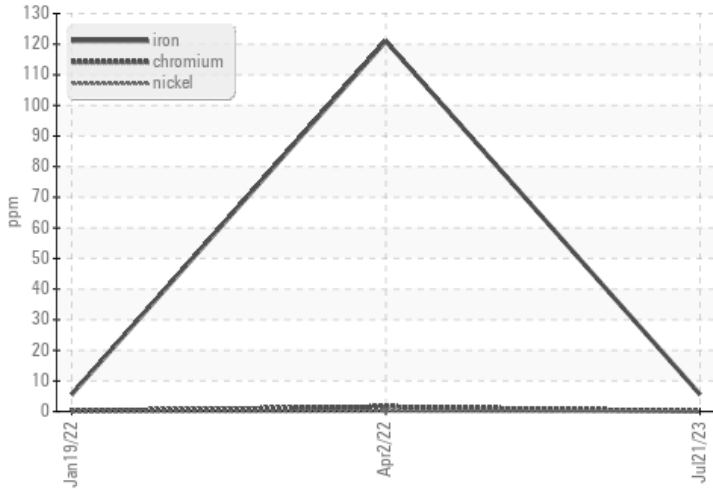


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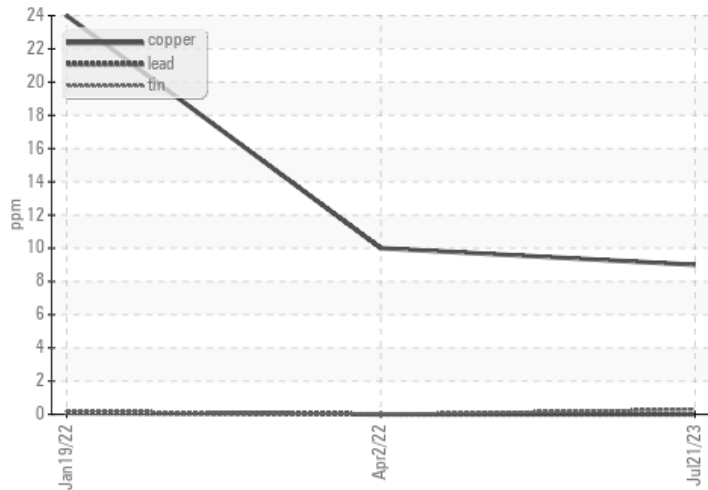


GRAPHS

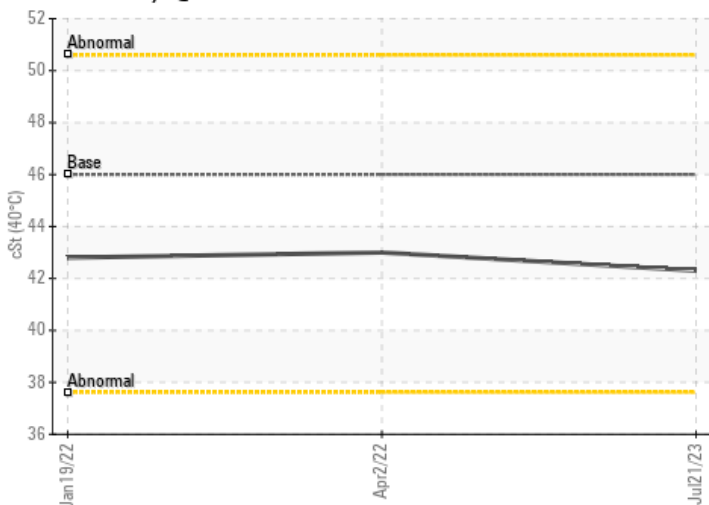
Ferrous Alloys



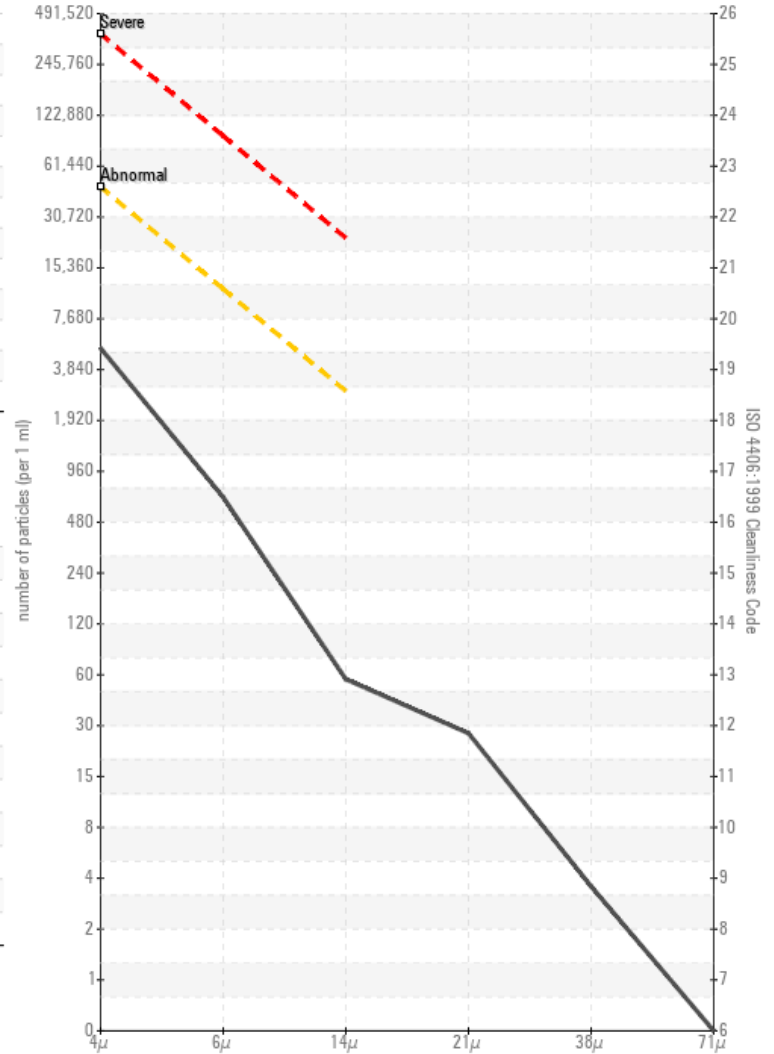
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

