



CONSTRUCTION EQUIPMENT

SPM380796 GREAT LAKE SENNEBOGEN 860M 860.0.2050 - HYDRAULIC SYSTEM



Sample No: VCP358092
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM380796 GREAT LAKE



SAMPLE INFORMATION

Sample Number	VCP358092	VCP311912	---	---
Sample Date	15 Apr 2022	24 Jul 2021	---	---
Machine Hours	1083	324	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Changed	Not Changed	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

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 5000 INDUSTRIAL HWY
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 F:



OIL CONDITION

Visc @ 40°C	cSt	█ 38.1	█ 43.3	---	---
Acid Number (AN)	mg KOH/g	█ 1.07	█ 1.257	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		▲ 11655	▲ 14449	---	---
Particles >6µm		█ 1263	▲ 3091	---	---
Particles >14µm		█ 45	▲ 167	---	---
ISO 4406:1999 (c)		21/17/13	21/19/15	---	---
Silicon	ppm	█ 1	█ 1	---	---
Sodium	ppm	█ 2	█ 2	---	---
Potassium	ppm	█ 0	█ <1	---	---

Diagnosis

The 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 high 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 acceptable for the time in service.



WEAR METALS

Iron	ppm	█ 4	█ 2	---	---
Copper	ppm	█ 2	█ 2	---	---
Lead	ppm	█ <1	█ <1	---	---
Tin	ppm	█ 0	█ <1	---	---
Aluminum	ppm	█ <1	█ 0	---	---
Chromium	ppm	█ 2	█ <1	---	---
Molybdenum	ppm	█ <1	█ 0	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	<1	<1	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	1201	1365	---	---
Magnesium	ppm	█ 5	█ 6	---	---
Zinc	ppm	█ 641	█ 721	---	---
Phosphorus	ppm	█ 590	█ 633	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 2	█ 1	---	---

Depot: VOLVO8885
Unique No: 9955861
Signed: Don Baldrige
Report Date: 29 Apr 2022

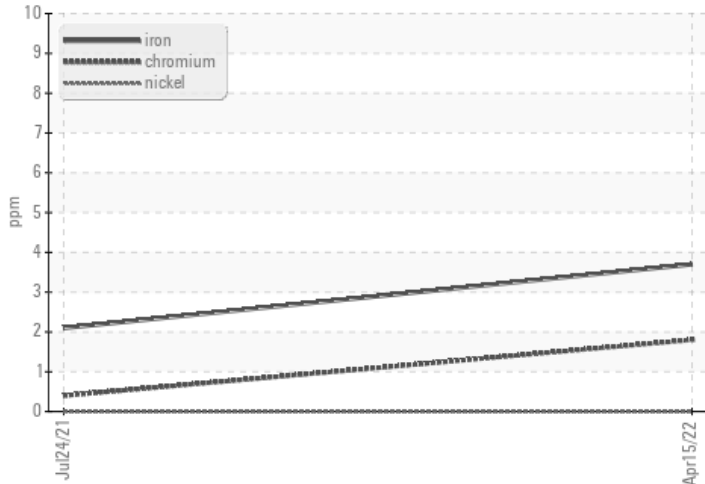


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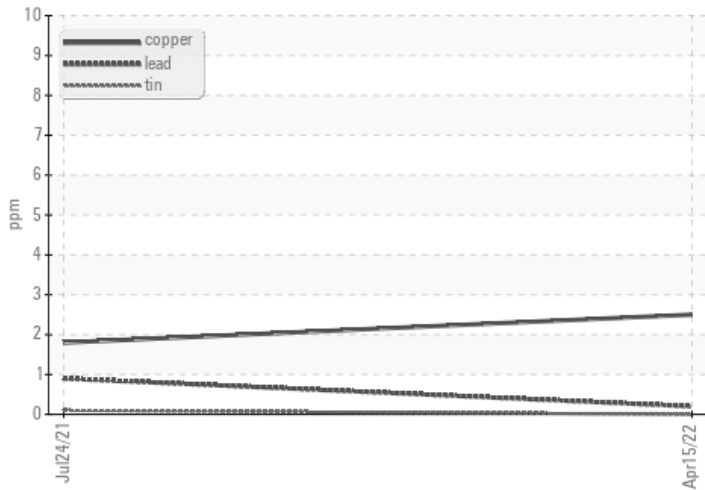


GRAPHS

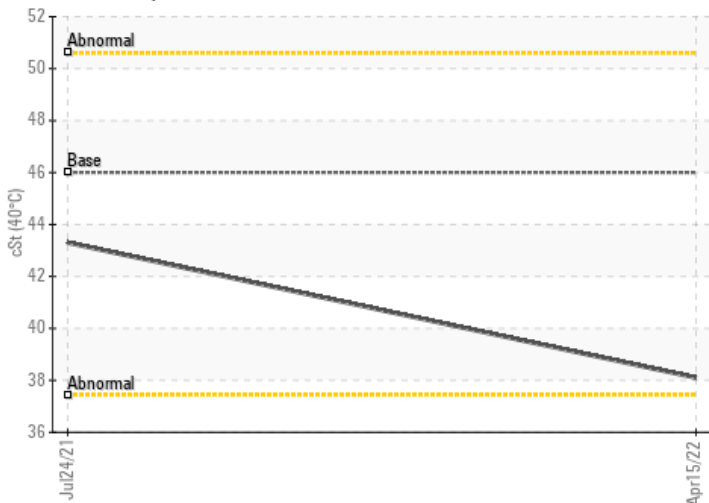
Ferrous Alloys



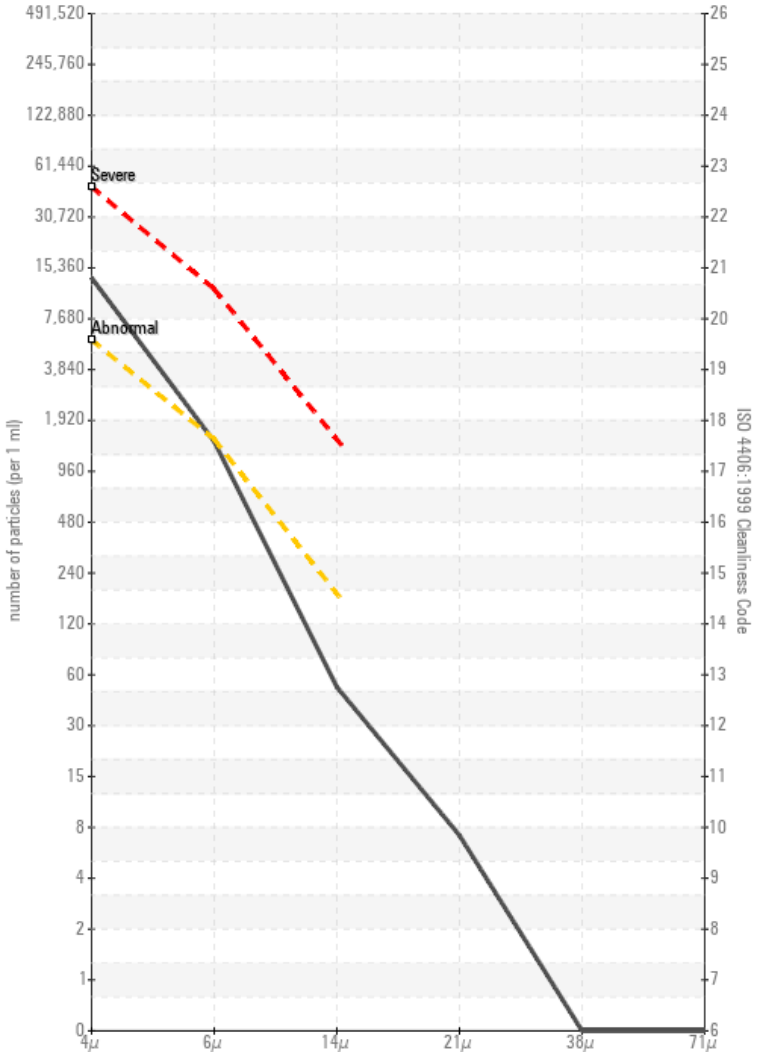
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

