



CONSTRUCTION EQUIPMENT

ASCENDUM MACHINERY/250 HOUR CSA 19053

CATERPILLAR CS433C 458 (S/N 31M00206) - HYDRAULIC SYSTEM



Sample No: VCP425915
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 19053



SAMPLE INFORMATION

Sample Number	VCP425915	VCP0007085	VCP0000307	---
Sample Date	25 Jul 2023	08 Feb 2023	19 Jan 2022	---
Machine Hours	7928	7800	7707	---
Oil Hours	0	7800	7707	---
Oil Changed	Not Chngd	Changed	N/A	---
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	---

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OIL CONDITION

Visc @ 40°C	cSt	42.4	43.7	41.7	---
Acid Number (AN)	mg KOH/g	0.56	1.09	1.331	---



CONTAMINATION

Particles >4µm		103443	89492	98531	---
Particles >6µm		16010	8411	7421	---
Particles >14µm		130	67	57	---
ISO 4406:1999 (c)		24/21/14	24/20/13	24/20/13	---
Silicon	ppm	6	5	4	---
Sodium	ppm	<1	<1	<1	---
Potassium	ppm	<1	0	0	---

Diagnosis

We recommend you service the filters on this component. 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 suitable for further service.



WEAR METALS

Iron	ppm	8	17	15	---
Copper	ppm	49	70	52	---
Lead	ppm	1	2	1	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	0	<1	1	---
Chromium	ppm	0	0	0	---
Molybdenum	ppm	2	3	3	---
Nickel	ppm	<1	0	0	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	<1	---
Manganese	ppm	0	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	173	673	657	---
Magnesium	ppm	93	468	475	---
Zinc	ppm	467	1019	1061	---
Phosphorus	ppm	394	862	892	---
Barium	ppm	0	0	0	---
Boron	ppm	<1	3	8	---

Depot: TRIBUR
Unique No: 10587187
Signed: Don Baldrige
Report Date: 05 Aug 2023

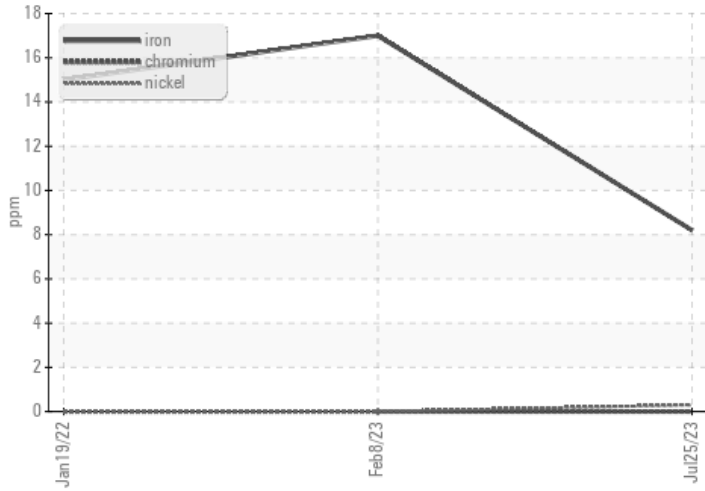


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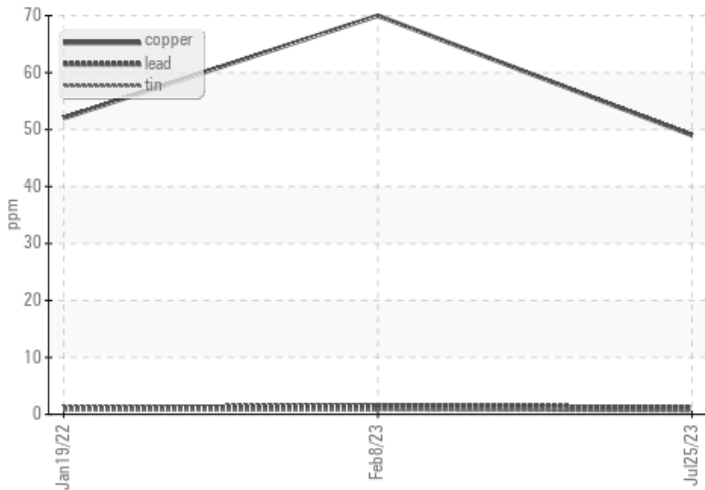


GRAPHS

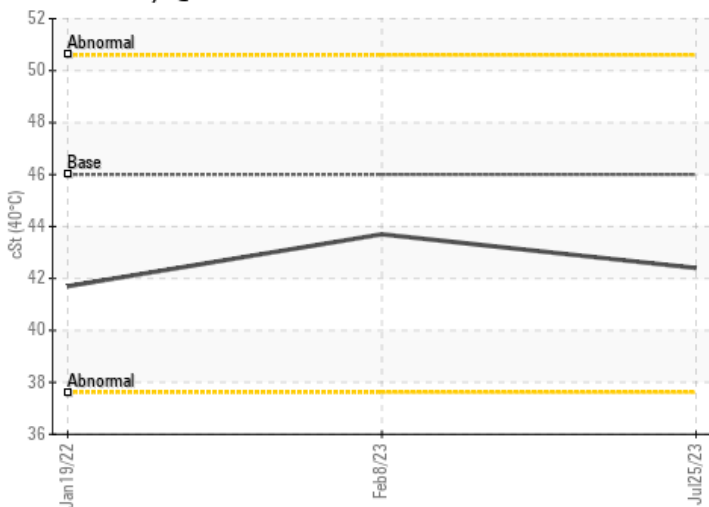
Ferrous Alloys



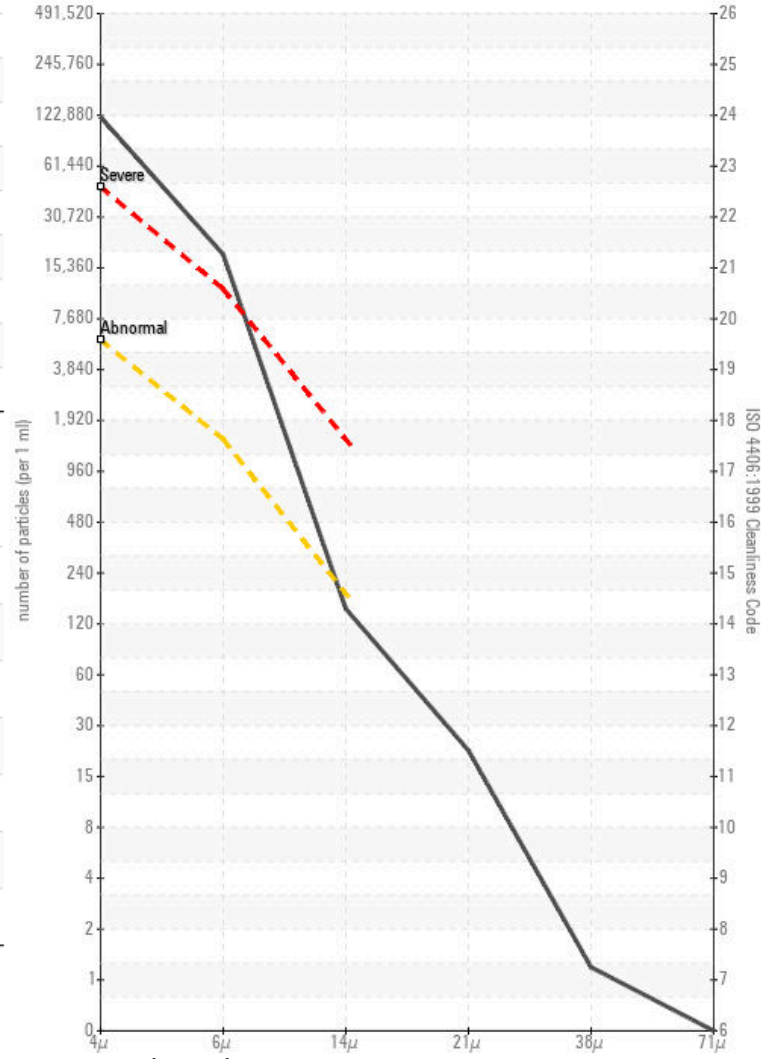
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

