



CONSTRUCTION EQUIPMENT

SPM594086 CATERPILLAR 815F 1GNO08886 - HYDRAULIC SYSTEM



Sample No: VCP420659
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM594086



SAMPLE INFORMATION

Sample Number	VCP420659	---	---	---
Sample Date	25 Aug 2023	---	---	---
Machine Hours	5625	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

JOHN KENO & CO

750 RICARD LN
 ELK GROVE VILLAGE, IL
 US 60007

Contact: LUKAS DECKER
 ldecker@johnkeno.com

T: (847)340-2432

F:



OIL CONDITION

Visc @ 40°C	cSt	█ 40.5	---	---	---
Acid Number (AN)	mg KOH/g	█ 1.05	---	---	---



CONTAMINATION

Particles >4µm		▲ 17240	---	---	---
Particles >6µm		▲ 2865	---	---	---
Particles >14µm		█ 57	---	---	---
ISO 4406:1999 (c)		21/19/13	---	---	---
Silicon	ppm	█ 5	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ <1	---	---	---

Diagnosis

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. 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 oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



WEAR METALS

Iron	ppm	█ 3	---	---	---
Copper	ppm	█ 51	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ <1	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 401	---	---	---
Magnesium	ppm	█ 134	---	---	---
Zinc	ppm	█ 989	---	---	---
Phosphorus	ppm	█ 801	---	---	---
Barium	ppm	█ 2	---	---	---
Boron	ppm	█ 5	---	---	---

Depot: JOHELK
Unique No: 10632703
Signed: Wes Davis
Report Date: 06 Sep 2023

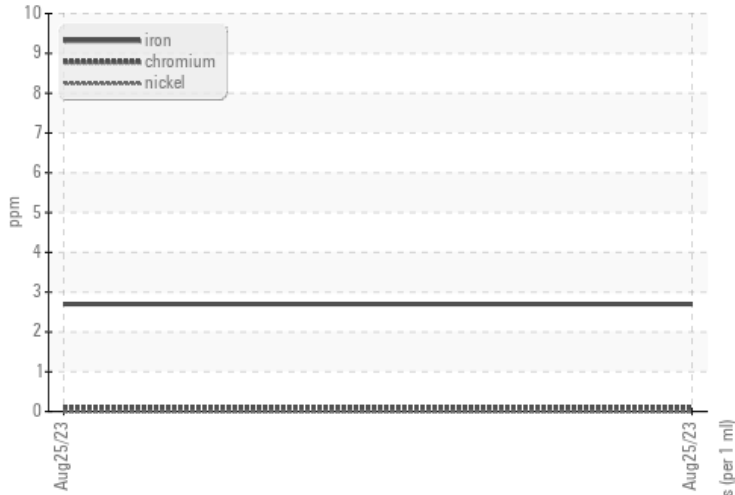


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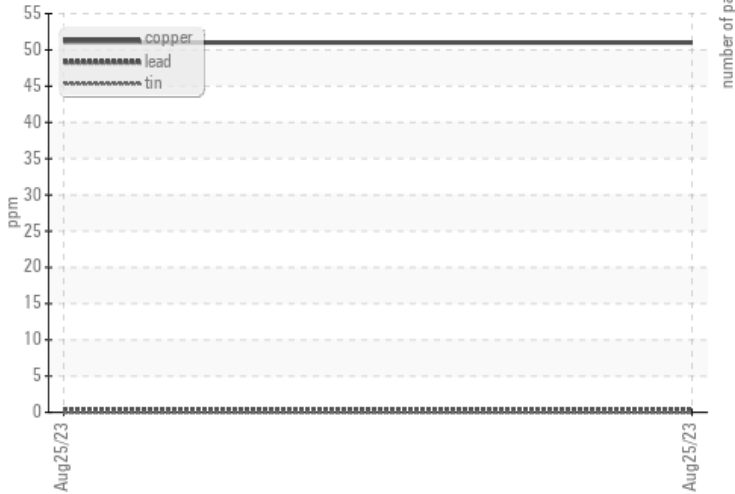


GRAPHS

Ferrous Alloys



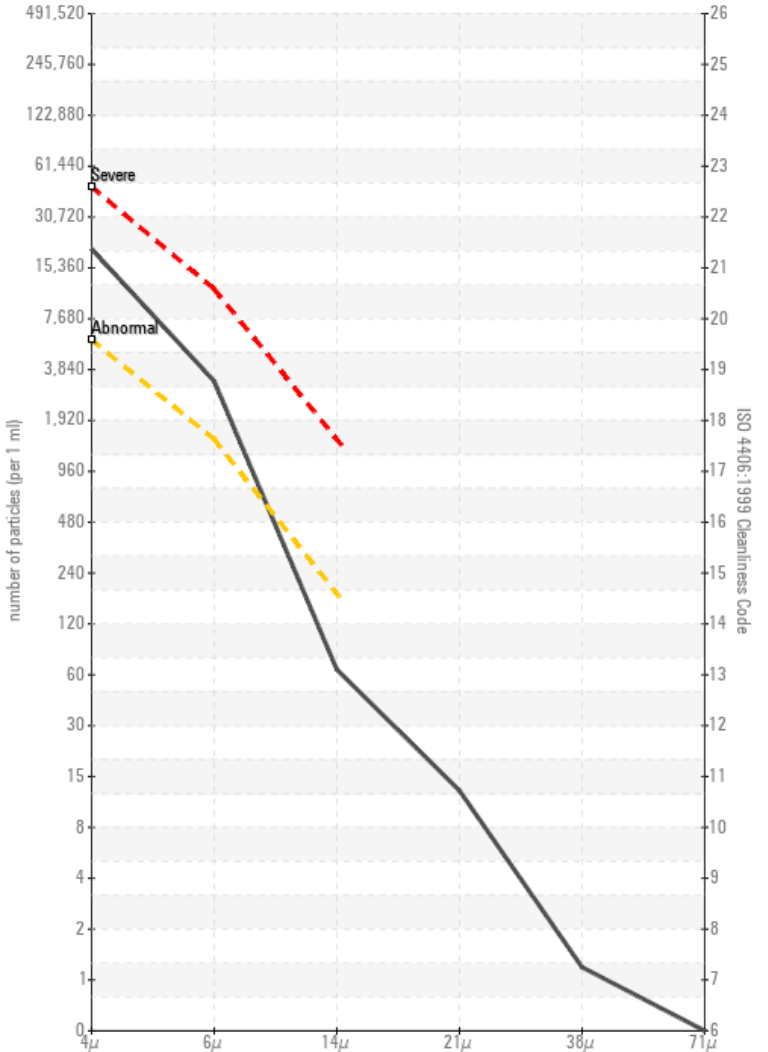
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

