



CONSTRUCTION EQUIPMENT

3495BR VOLVO L180F 11639 - HYDRAULIC SYSTEM



Sample No: VCP435032
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: 3495BR



SAMPLE INFORMATION

Sample Number	VCP435032	---	---	---
Sample Date	05 Sep 2023	---	---	---
Machine Hours	11979	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	SEVERE	---	---	---

HIGHWAY EQUIPMENT AND SUPPLY CO
 200 BURKHOLDER DR.
 EPHRATA, PA
 US 17522
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 chad@hwyequip.com
 T: (717)859-3132
 F: (717)859-2698



OIL CONDITION

Visc @ 40°C	cSt	█ 43.7	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.26	---	---	---



CONTAMINATION

Particles >4µm		● 74226	---	---	---
Particles >6µm		● 11905	---	---	---
Particles >14µm		█ 155	---	---	---
ISO 4406:1999 (c)		23/21/14	---	---	---
Silicon	ppm	█ 2	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 0	---	---	---



WEAR METALS

Iron	ppm	█ 7	---	---	---
Copper	ppm	█ 1	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 0	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 0	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	< 1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 112	---	---	---
Magnesium	ppm	█ 8	---	---	---
Zinc	ppm	█ 418	---	---	---
Phosphorus	ppm	█ 338	---	---	---
Barium	ppm	█ 6	---	---	---
Boron	ppm	█ < 1	---	---	---

Diagnosis

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 46. Please confirm. 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 oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Depot: INSEPH
Unique No: 10635128
Signed: Wes Davis
Report Date: 08 Sep 2023

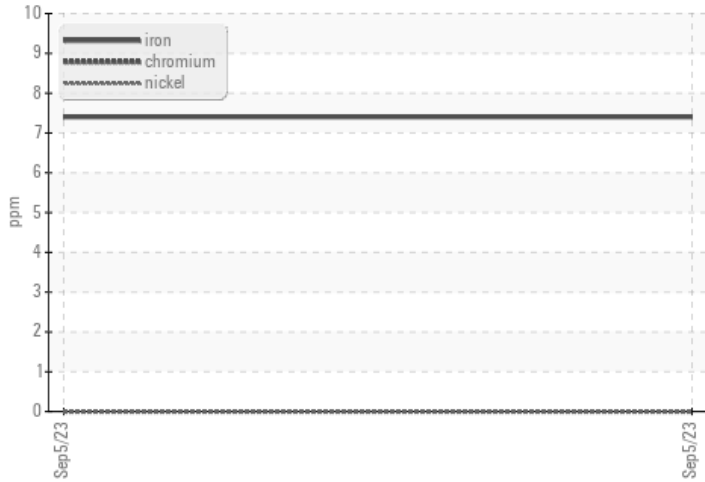


CONSTRUCTION EQUIPMENT

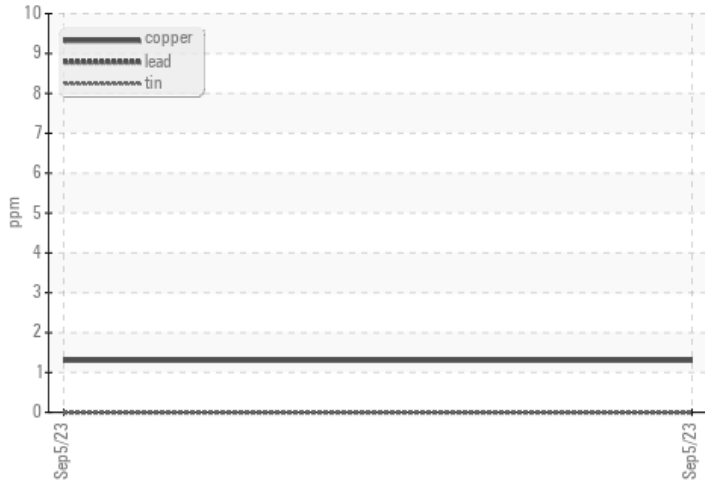


GRAPHS

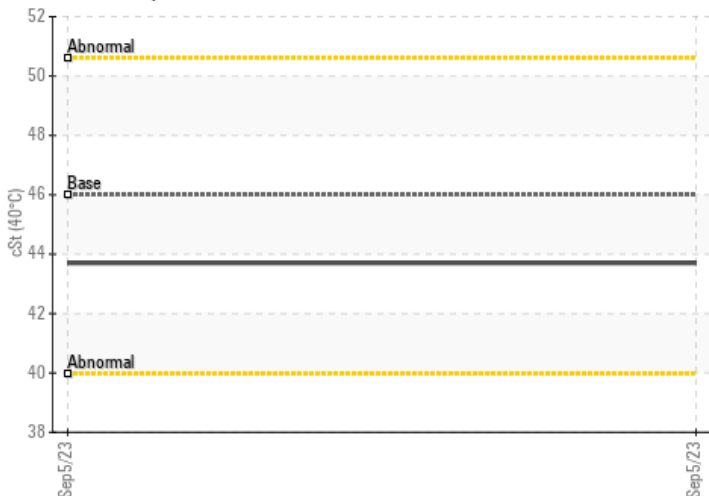
Ferrous Alloys



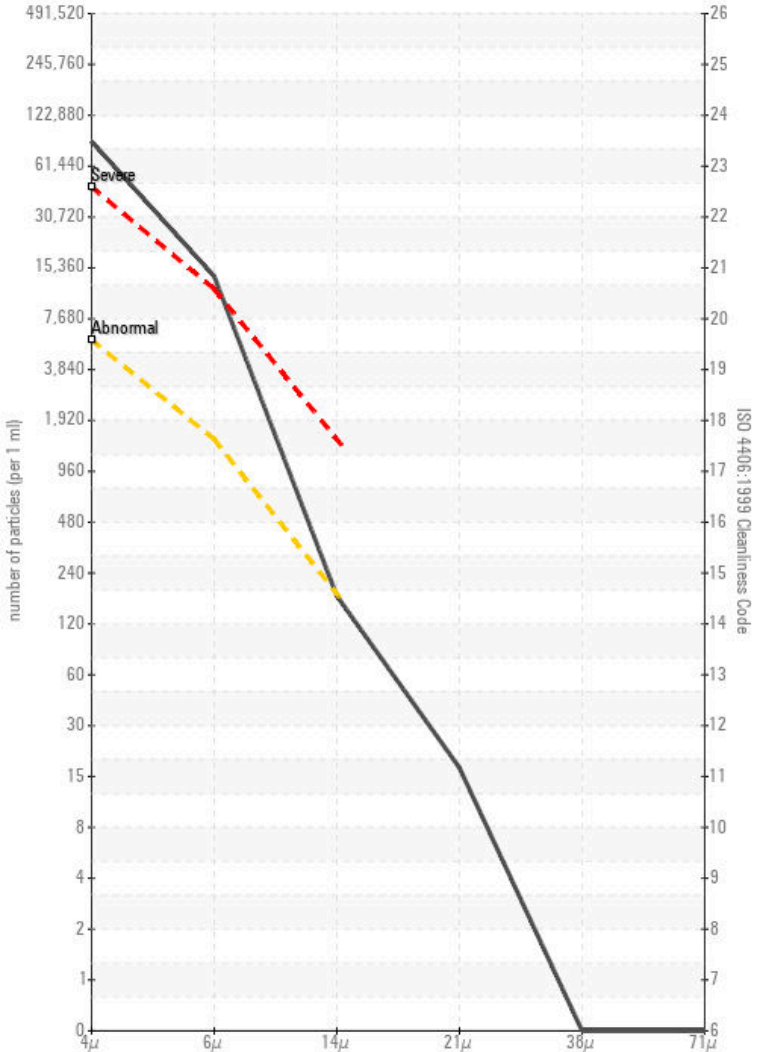
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

