



CONSTRUCTION EQUIPMENT

SWO-069572 VOLVO L180H 5715 - HYDRAULIC SYSTEM



Sample No: VCP431073
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-069572



SAMPLE INFORMATION

Sample Number	VCP431073	VCP0004654	---	---
Sample Date	08 Feb 2024	21 Jul 2023	---	---
Machine Hours	1600	0	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	ABNORMAL	NORMAL	---	---

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 US 52031
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 T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	42.2	42.6	---	---
Acid Number (AN)	mg KOH/g	0.40	0.38	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		▲ 11539	1473	---	---
Particles >6µm		1078	357	---	---
Particles >14µm		20	41	---	---
ISO 4406:1999 (c)		21/17/11	18/16/13	---	---
Silicon	ppm	1	<1	---	---
Sodium	ppm	<1	0	---	---
Potassium	ppm	0	<1	---	---

Diagnosis

We recommend you service the filters on this component. 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	1	<1	---	---
Copper	ppm	2	2	---	---
Lead	ppm	<1	<1	---	---
Tin	ppm	6	0	---	---
Aluminum	ppm	0	0	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	0	0	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	0	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	43	54	---	---
Magnesium	ppm	0	<1	---	---
Zinc	ppm	384	444	---	---
Phosphorus	ppm	302	331	---	---
Barium	ppm	0	1	---	---
Boron	ppm	0	0	---	---

Depot: DUNBEL
Unique No: 10882941
Signed: Wes Davis
Report Date: 16 Feb 2024

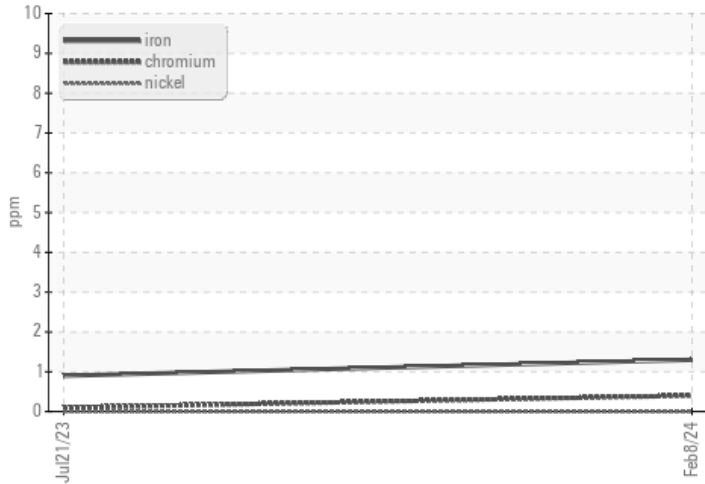


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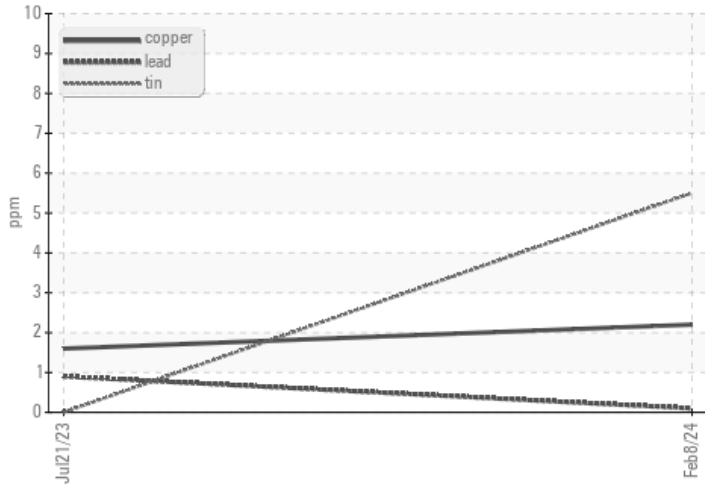


GRAPHS

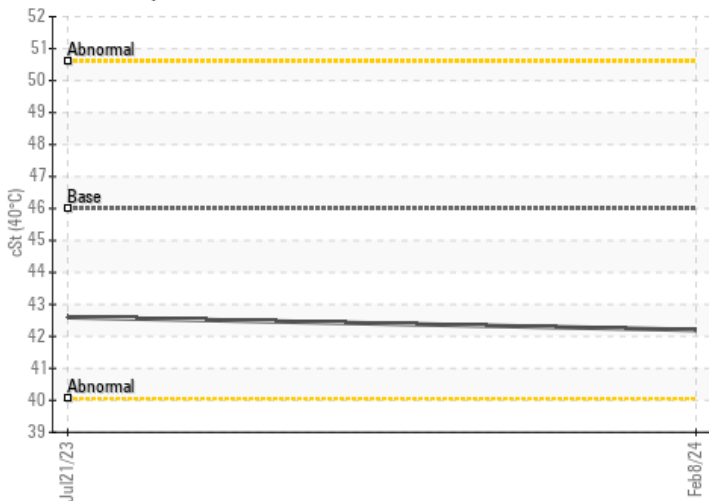
Ferrous Alloys



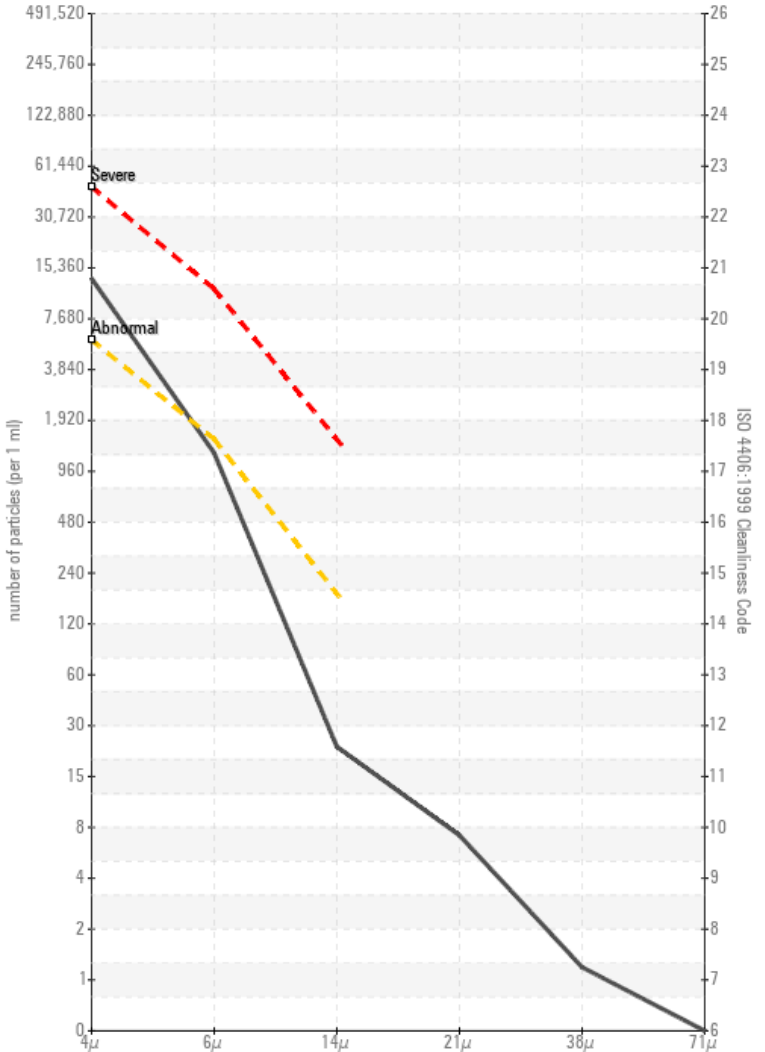
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

