



CONSTRUCTION EQUIPMENT

SPM634622 US GYPSUM VOLVO L180H 5498 - HYDRAULIC SYSTEM



Sample No: VCP435679
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM634622 US GYPSUM



SAMPLE INFORMATION

Sample Number	VCP435679	VCP422611	VCP410796	VCP366917
Sample Date	29 Nov 2023	24 Apr 2023	13 Mar 2023	03 Aug 2022
Machine Hours	6195	4620	4285	2775
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	ABNORMAL	NORMAL	NORMAL	ABNORMAL

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 5000 INDUSTRIAL HWY
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 F:



OIL CONDITION

Visc @ 40°C	cSt	41.9	42.5	45.1	43.5
Acid Number (AN)	mg KOH/g	0.36	0.26	0.18	0.37



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		▲ 10208	1831	4839	▲ 14721
Particles >6µm		81	446	164	▲ 2856
Particles >14µm		9	32	14	▲ 254
ISO 4406:1999 (c)		21/14/10	18/16/12	19/15/11	21/19/15
Silicon	ppm	<1	<1	2	<1
Sodium	ppm	2	0	<1	1
Potassium	ppm	0	0	0	0

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	2	0	2	4
Copper	ppm	1	0	1	3
Lead	ppm	0	0	0	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	0	<1	<1	2
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	252	262	84	63
Magnesium	ppm	0	1	0	<1
Zinc	ppm	339	353	190	387
Phosphorus	ppm	328	308	235	326
Barium	ppm	0	0	0	0
Boron	ppm	4	4	0	0

Depot: VOLVO8885
Unique No: 10792944
Signed: Wes Davis
Report Date: 19 Dec 2023

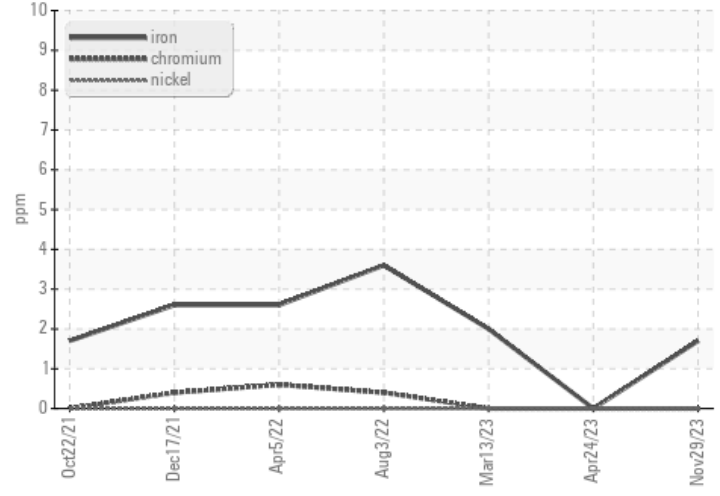


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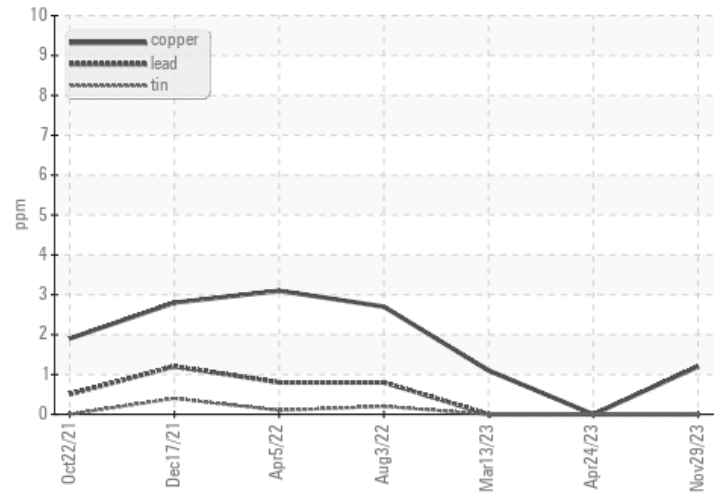


GRAPHS

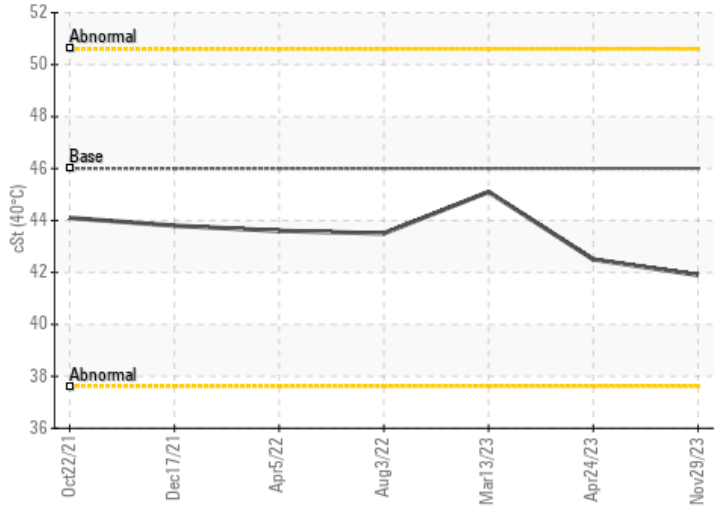
Ferrous Alloys



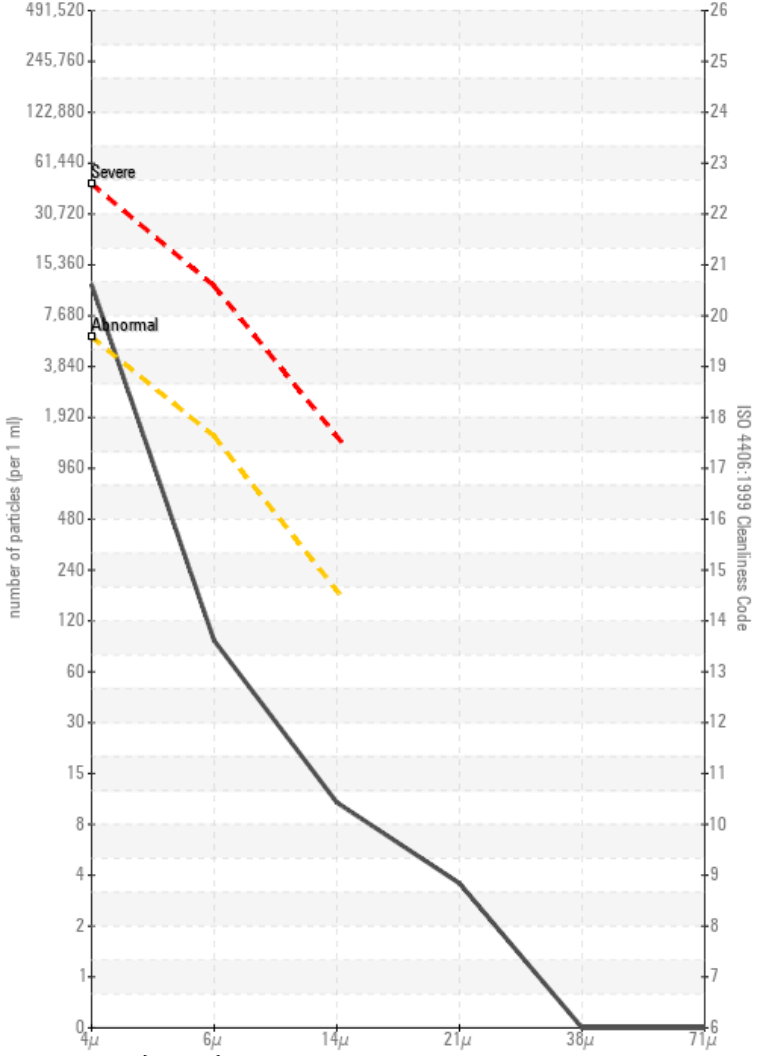
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

