



CONSTRUCTION EQUIPMENT

SPM633895 CH HAGER VOLVO EC160EL 314557 - HYDRAULIC SYSTEM



Sample No: VCP435716
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM633895 CH HAGER



SAMPLE INFORMATION

Sample Number	VCP435716	VCP422966	---	---
Sample Date	10 Nov 2023	24 Jul 2023	---	---
Machine Hours	1015	483	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Changed	Changed	---	---
Sample Status	ABNORMAL	NORMAL	---	---

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 5000 INDUSTRIAL HWY
 GARY, IN
 US 46406
 Contact: DAVE ENG
 DAVE.ENG@ALTG.COM
 T: (312)350-2560
 F:

OIL CONDITION

Visc @ 40°C	cSt	42.0	43.38	---	---
Acid Number (AN)	mg KOH/g	0.52	0.53	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		---	34160	---	---
Particles >6µm		---	6272	---	---
Particles >14µm		---	564	---	---
ISO 4406:1999 (c)		---	22/20/16	---	---
Silicon	ppm	5	3	---	---
Sodium	ppm	2	<1	---	---
Potassium	ppm	0	0	---	---

Diagnosis

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris 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	2	2	---	---
Copper	ppm	28	18	---	---
Lead	ppm	0	0	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	0	<1	---	---
Chromium	ppm	0	0	---	---
Molybdenum	ppm	0	<1	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	0	<1	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	72	83	---	---
Magnesium	ppm	1	10	---	---
Zinc	ppm	430	544	---	---
Phosphorus	ppm	345	409	---	---
Barium	ppm	0	0	---	---
Boron	ppm	0	0	---	---

Depot: VOLVO8885
Unique No: 10766943
Signed: Don Baldrige
Report Date: 05 Dec 2023

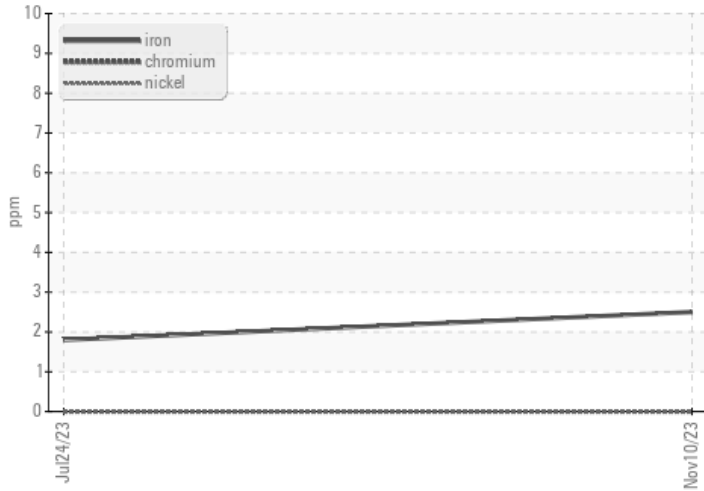


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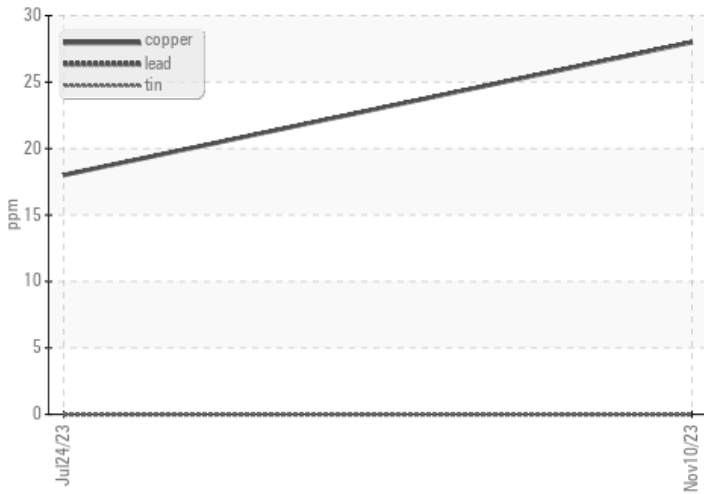


GRAPHS

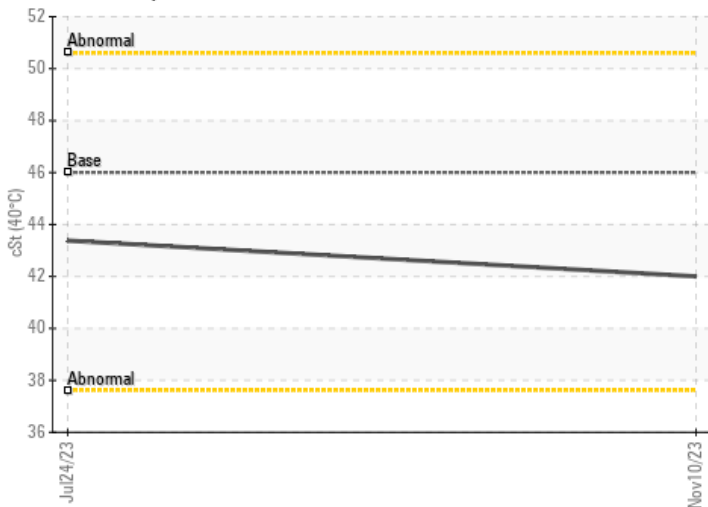
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

