



CONSTRUCTION EQUIPMENT

728544 TAKEUCHI TL10 410004839 - DIESEL ENGINE



Sample No: VCP438412
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 728544



SAMPLE INFORMATION

Sample Number	VCP438412	VCP399252	---	---
Sample Date	04 Jun 2024	14 Dec 2022	---	---
Machine Hours	1759	614	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	SEVERE	NORMAL	---	---

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 ORLANDO, FL
 US 32824
 Contact: ANDREW MCCOY
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 F: (407)659-8720



OIL CONDITION

Visc @ 100°C	cSt	▲ 12.13	■ 14.2	---	---
Base Number (BN)	mg KOH/g	■ 4.11	■ 7.7	---	---
Oxidation (PA)	%	152	99	---	---

Diagnosis

We advise that you check the fuel injection system. The oil 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 high amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	■ 0.8	■ 0.8	---	---
Nitration (PA)	%	119	102	---	---
Sulfation (PA)	%	91	71	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	▲ 11.7	<1.0	---	---
Silicon	ppm	■ 11	■ 3	---	---
Sodium	ppm	■ 3	■ 0	---	---
Potassium	ppm	■ 0	■ 6	---	---



WEAR METALS

Iron	ppm	■ 61	■ 7	---	---
Copper	ppm	■ 8	■ 10	---	---
Lead	ppm	■ 0	■ 0	---	---
Tin	ppm	■ <1	■ <1	---	---
Aluminum	ppm	■ 3	■ 2	---	---
Chromium	ppm	■ 1	■ <1	---	---
Molybdenum	ppm	■ 64	■ 33	---	---
Nickel	ppm	■ 0	■ 0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	■ 0	■ <1	---	---
Manganese	ppm	■ 1	■ <1	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	■ 1821	■ 2127	---	---
Magnesium	ppm	■ 505	■ 53	---	---
Zinc	ppm	■ 1259	■ 1054	---	---
Phosphorus	ppm	■ 1018	■ 822	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 61	■ 122	---	---

Depot: VOLVO0096
Unique No: 11070543
Signed: Sean Felton
Report Date: 21 Jun 2024

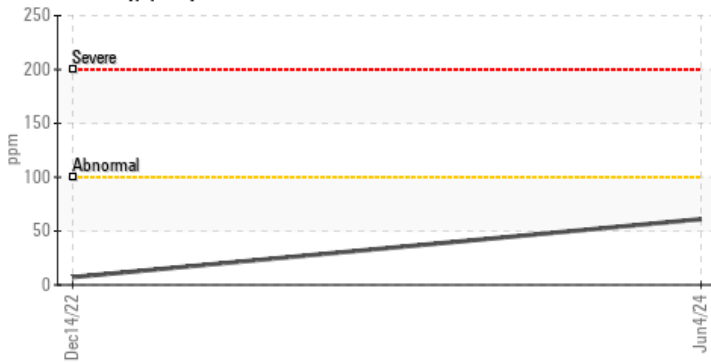


CONSTRUCTION EQUIPMENT



GRAPHS

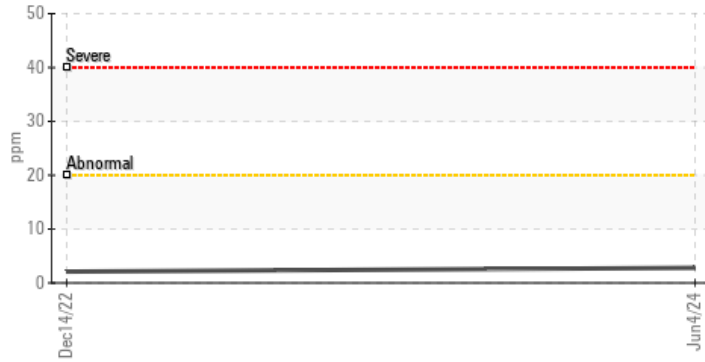
Iron (ppm)



Lead (ppm)



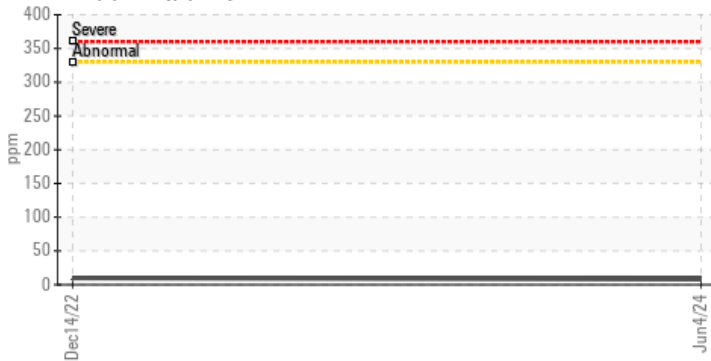
Aluminum (ppm)



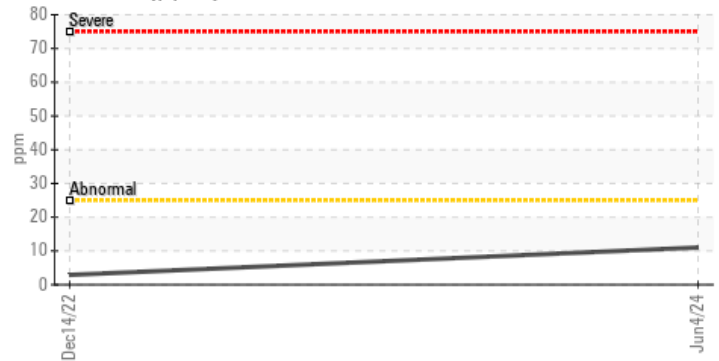
Chromium (ppm)



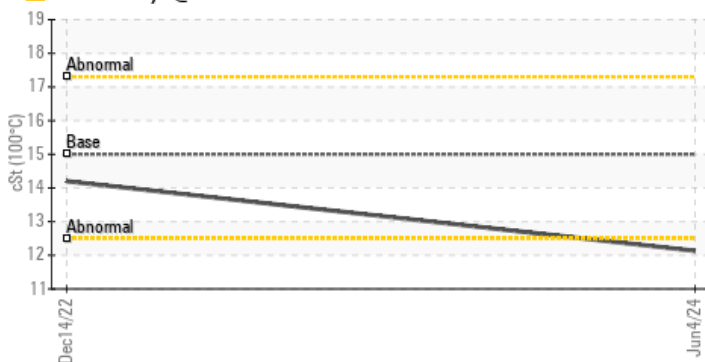
Copper (ppm)



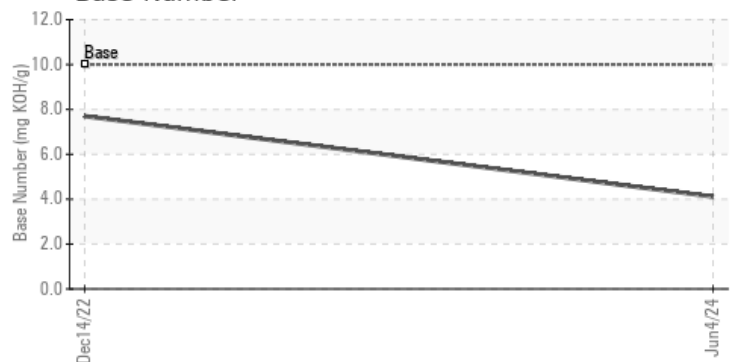
Silicon (ppm)



▲ Viscosity @ 100°C



Base Number





CONSTRUCTION EQUIPMENT

136968 J HARRIS TAKEUCHI TL 10 410004839 - HYDRAULIC SYSTEM



Sample No: VCP399249
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 136968 J HARRIS



SAMPLE INFORMATION

Sample Number	VCP399249	---	---	---
Sample Date	14 Dec 2022	---	---	---
Machine Hours	614	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changed	---	---	---
Sample Status	ATTENTION	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	█ 46.0	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.86	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		● 7163	---	---	---
Particles >6µm		● 2033	---	---	---
Particles >14µm		● 287	---	---	---
ISO 4406:1999 (c)		20/18/15	---	---	---
Silicon	ppm	█ 6	---	---	---
Sodium	ppm	█ <1	---	---	---
Potassium	ppm	█ 1	---	---	---

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. All component wear rates are normal. There is a moderate amount of particulates 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	█ 5	---	---	---
Copper	ppm	█ 15	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 11	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	1	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 2825	---	---	---
Magnesium	ppm	█ 48	---	---	---
Zinc	ppm	█ 789	---	---	---
Phosphorus	ppm	█ 614	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 17	---	---	---

Depot: VOLVO0096
Unique No: 10260073
Signed: Jonathan Hester
Report Date: 20 Dec 2022

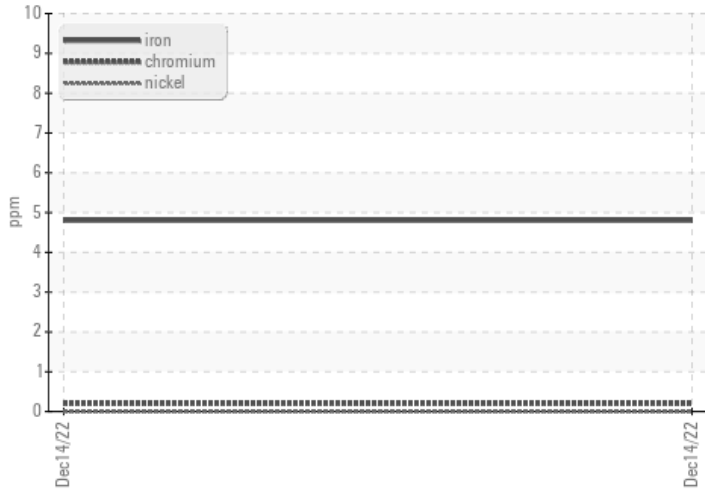


CONSTRUCTION EQUIPMENT

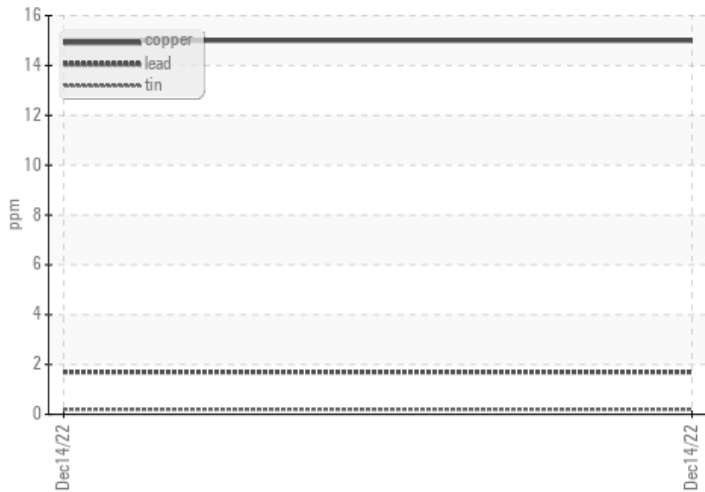


GRAPHS

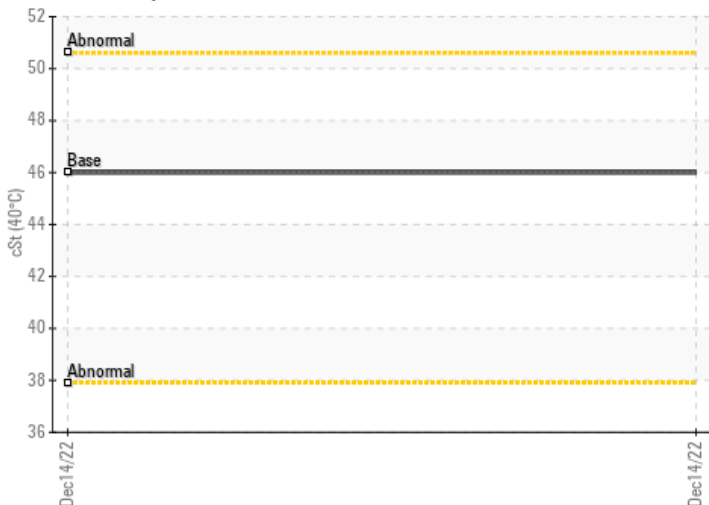
Ferrous Alloys



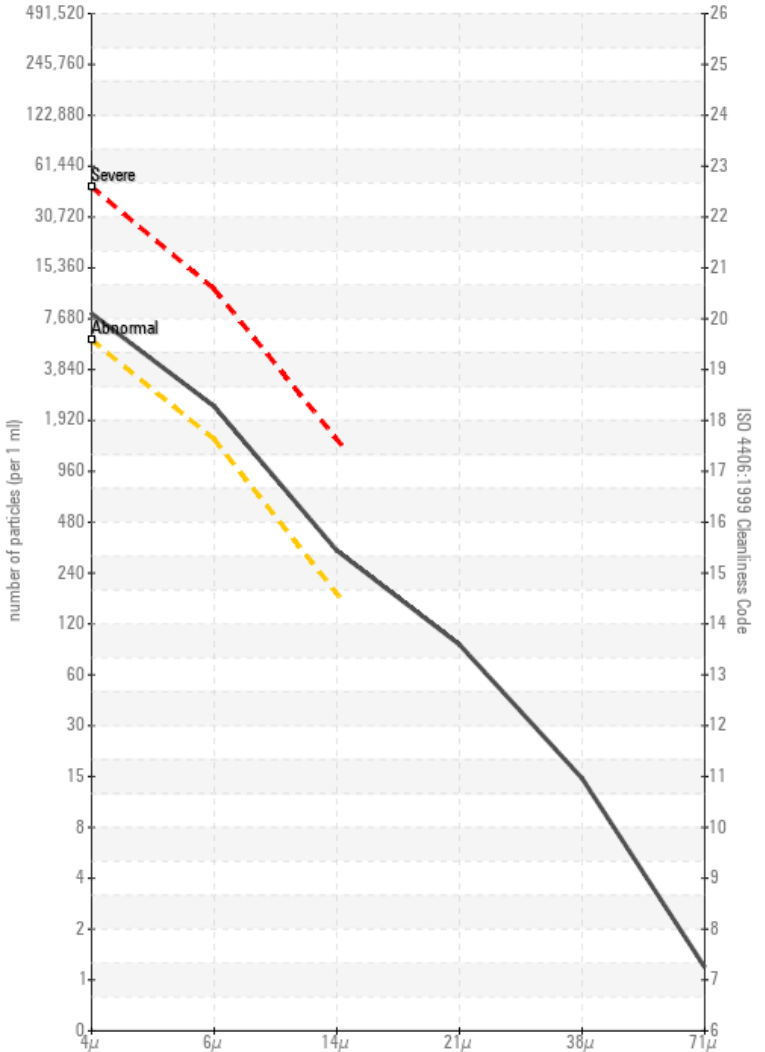
Non-ferrous Metals



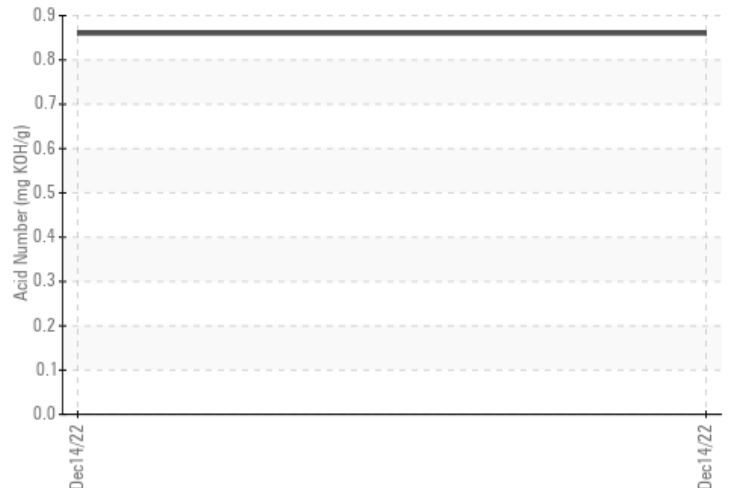
Viscosity @ 40°C



Particle Count



Acid Number





CONSTRUCTION EQUIPMENT

136968 J HARRIS TAKEUCHI TL10 410004839 - REAR LEFT FINAL DRIVE



Sample No: VCP399248
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 136968 J HARRIS



SAMPLE INFORMATION

Sample Number	VCP399248	---	---	---
Sample Date	14 Dec 2022	---	---	---
Machine Hours	614	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	█ 165	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 19	---	---	---
Sodium	ppm	█ 1	---	---	---
Potassium	ppm	█ 0	---	---	---



WEAR METALS

Iron	ppm	▲ 598	---	---	---
Copper	ppm	█ 1	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ 9	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	█ 7	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 8	---	---	---
Magnesium	ppm	█ 0	---	---	---
Zinc	ppm	█ 48	---	---	---
Phosphorus	ppm	█ 230	---	---	---
Barium	ppm	█ 5	---	---	---
Boron	ppm	█ 4	---	---	---

Diagnosis

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. All other metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

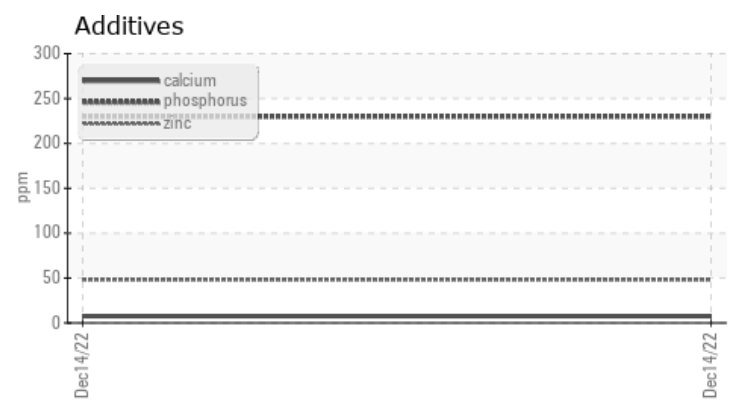
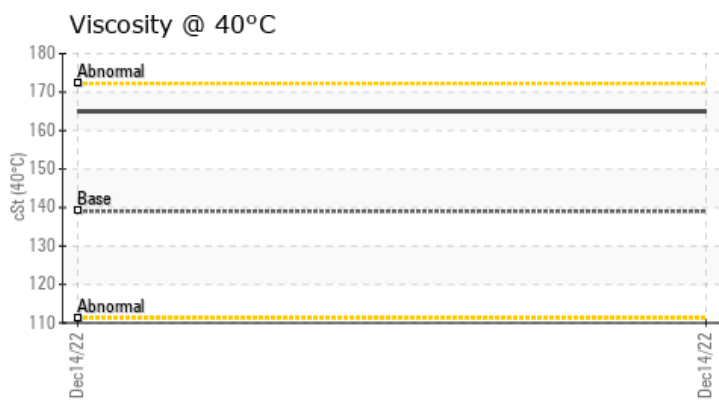
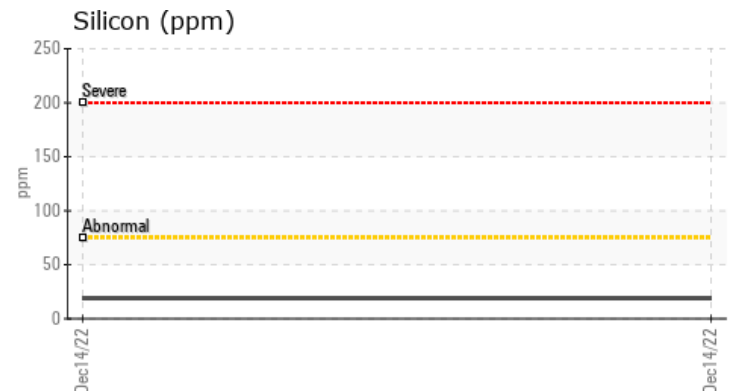
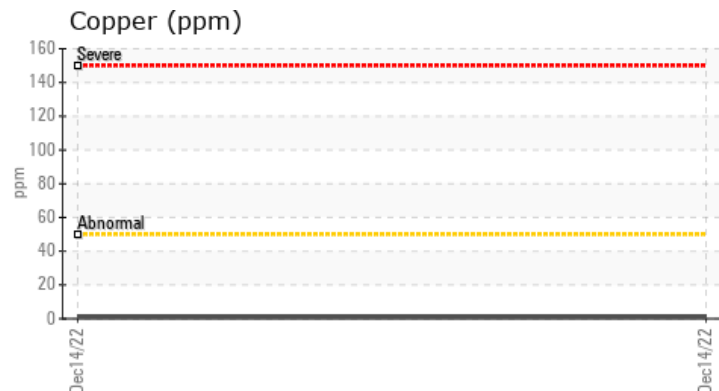
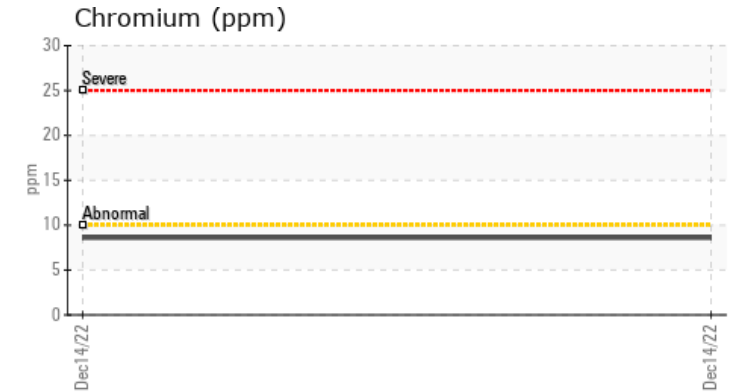
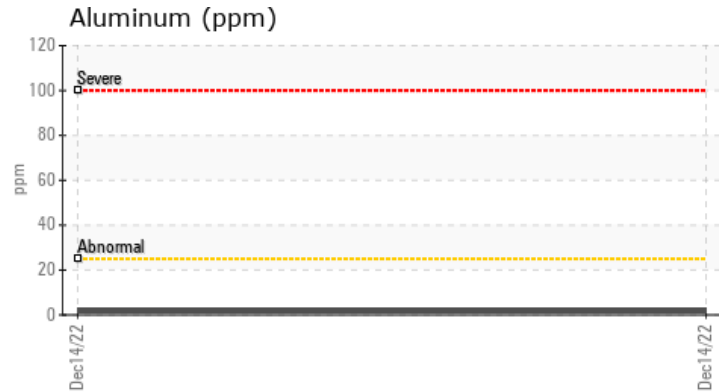
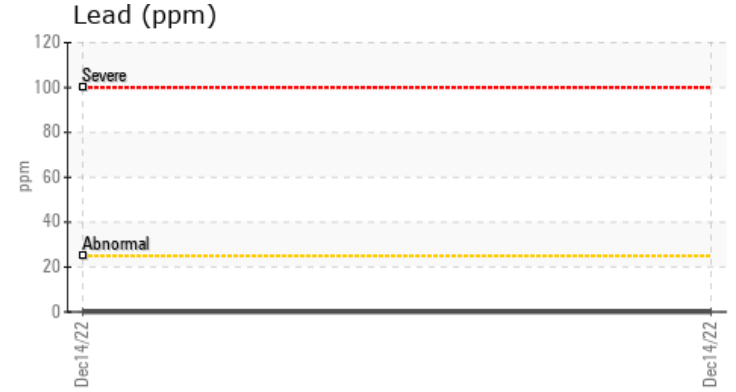
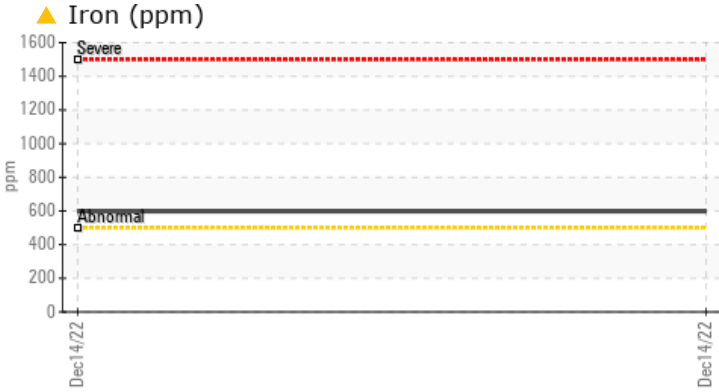
Depot: VOLVO0096
Unique No: 10260549
Signed: Don Baldrige
Report Date: 20 Dec 2022



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS





CONSTRUCTION EQUIPMENT

136968 J HARRIS TAKEUCHI TL10 410004839 - REAR RIGHT FINAL DRIVE



Sample No: VCP399250
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 136968 J HARRIS



SAMPLE INFORMATION

Sample Number	VCP399250	---	---	---
Sample Date	14 Dec 2022	---	---	---
Machine Hours	614	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	█ 169	---	---	---
-------------	-----	-------	-----	-----	-----



CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 23	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 0	---	---	---



WEAR METALS

Iron	ppm	▲ 730	---	---	---
Copper	ppm	█ 2	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	▲ 11	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 10	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 12	---	---	---
Magnesium	ppm	█ 0	---	---	---
Zinc	ppm	█ 57	---	---	---
Phosphorus	ppm	█ 302	---	---	---
Barium	ppm	█ 7	---	---	---
Boron	ppm	█ 6	---	---	---

Diagnosis

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. All other metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: VOLVO0096
Unique No: 10260548
Signed: Don Baldrige
Report Date: 20 Dec 2022



CONSTRUCTION EQUIPMENT



GRAPHS

