



CONSTRUCTION EQUIPMENT

12765 VOLVO A45G 752253 - TRANSMISSION (AUTO)



Sample No: VCE74012
Oil Type: VOLVO AUTOMATIC TRANSMISSION FLUID AT102
Job No: 12765



SAMPLE INFORMATION

Sample Number	VCE74012	---	---	---
Sample Date	17 Apr 2024	---	---	---
Machine Hours	268	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---

TRANSOURCE TRUCK & EQUIPMENT

901 EAST 60TH STREET NORTH
 SIOUX FALLS, SD
 US 57104

Contact: BRAD MAUPIN
 brad.maupin@transourceusa.com

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 F: (605)336-2248



OIL CONDITION

Visc @ 40°C	cSt	█ 29.6	---	---	---
-------------	-----	--------	-----	-----	-----



CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 12	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ <1	---	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.



WEAR METALS

Iron	ppm	█ 15	---	---	---
Copper	ppm	█ 13	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 4	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 0	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 2	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 191	---	---	---
Magnesium	ppm	█ 0	---	---	---
Zinc	ppm	█ 48	---	---	---
Phosphorus	ppm	█ 196	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 79	---	---	---

Depot: VOLVO0035
Unique No: 10994031
Signed: Wes Davis
Report Date: 24 Apr 2024



CONSTRUCTION EQUIPMENT



GRAPHS

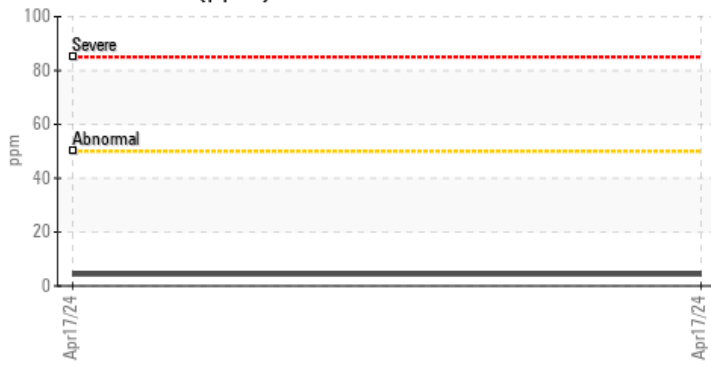
Iron (ppm)



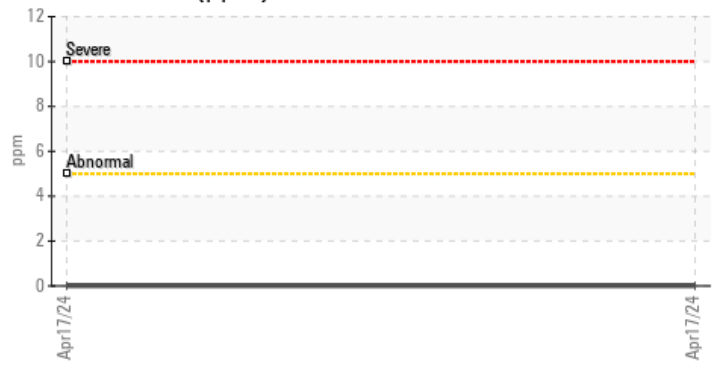
Lead (ppm)



Aluminum (ppm)



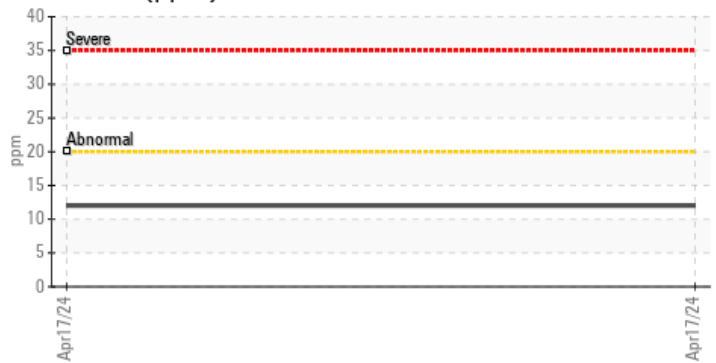
Chromium (ppm)



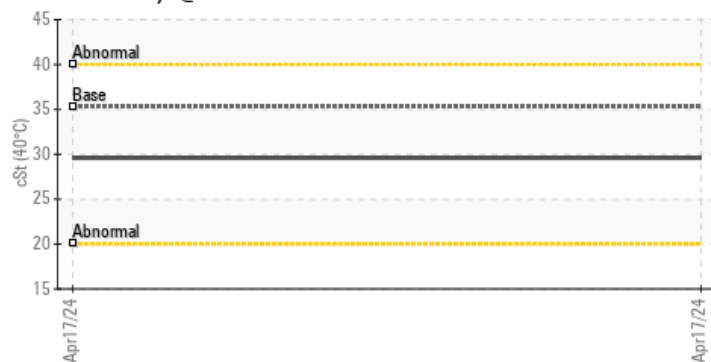
Copper (ppm)



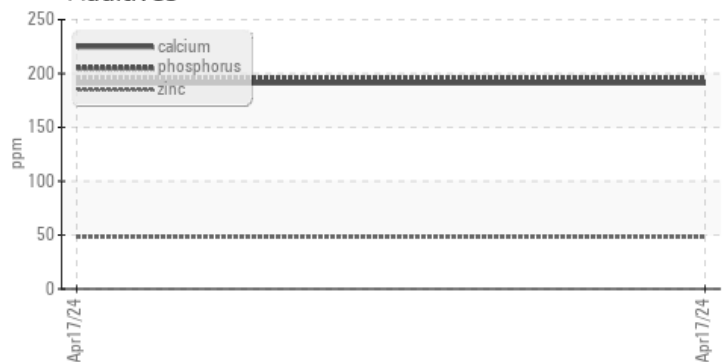
Silicon (ppm)



Viscosity @ 40°C



Additives





CONSTRUCTION EQUIPMENT

12765 VOLVO A45G 752253 - HYDRAULIC SYSTEM



Sample No: VCE118122
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 12765



SAMPLE INFORMATION

Sample Number	VCE118122	---	---	---
Sample Date	17 Apr 2024	---	---	---
Machine Hours	268	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---

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901 EAST 60TH STREET NORTH
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OIL CONDITION

Visc @ 40°C	cSt	█ 47.0	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.46	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		█ 1148	---	---	---
Particles >6µm		█ 199	---	---	---
Particles >14µm		█ 13	---	---	---
ISO 4406:1999 (c)		17/15/11	---	---	---
Silicon	ppm	█ 1	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 2	---	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	█ <1	---	---	---
Copper	ppm	█ 2	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 48	---	---	---
Magnesium	ppm	█ <1	---	---	---
Zinc	ppm	█ 422	---	---	---
Phosphorus	ppm	█ 337	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 0	---	---	---

Depot: VOLVO0035
Unique No: 10992297
Signed: Wes Davis
Report Date: 23 Apr 2024



CONSTRUCTION EQUIPMENT

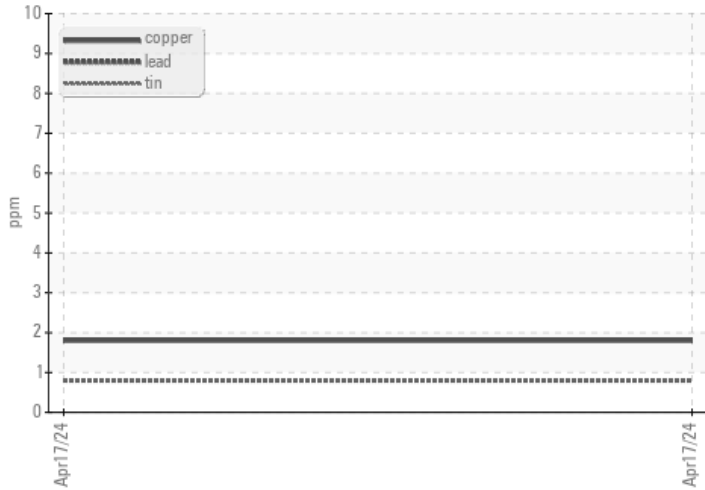


GRAPHS

Ferrous Alloys



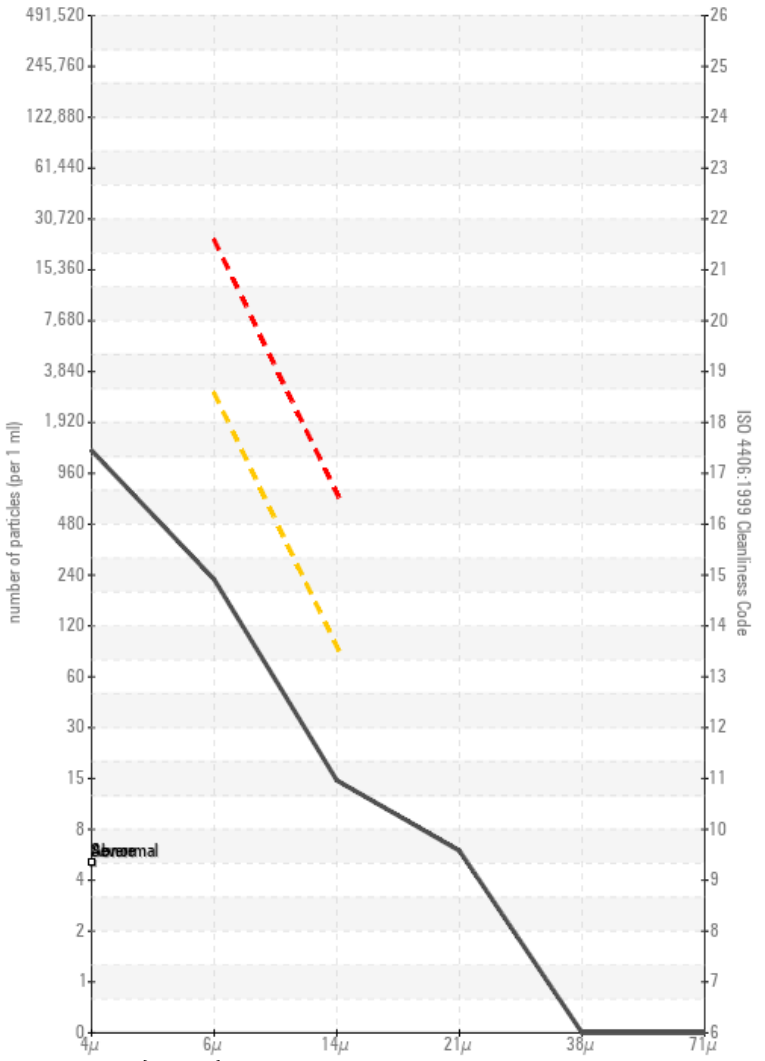
Non-ferrous Metals



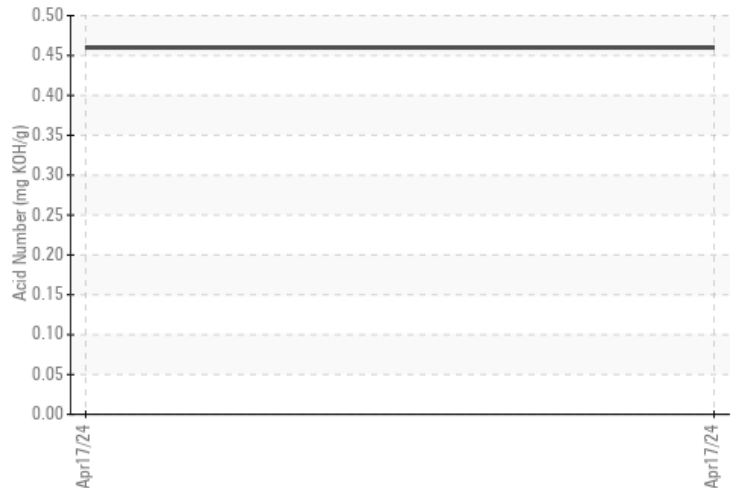
Viscosity @ 40°C



Particle Count



Acid Number





CONSTRUCTION EQUIPMENT

12944 VOLVO A45G 752253 - BOGIE/CENTER AXLE



Sample No: VCE74021
Oil Type: {unknown}
Job No: 12944



SAMPLE INFORMATION

Sample Number	VCE74021	---	---	---
Sample Date	02 May 2024	---	---	---
Machine Hours	270	---	---	---
Oil Hours	270	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---

TRANSOURCE TRUCK & EQUIPMENT

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OIL CONDITION

Visc @ 40°C	cSt	■ 56.4	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	■ 5	---	---	---
Sodium	ppm	■ 3	---	---	---
Potassium	ppm	■ 5	---	---	---



WEAR METALS

Iron	ppm	■ 149	---	---	---
Copper	ppm	■ <1	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ <1	---	---	---
Chromium	ppm	■ 2	---	---	---
Molybdenum	ppm	17	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	13	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	131	---	---	---
Magnesium	ppm	2	---	---	---
Zinc	ppm	53	---	---	---
Phosphorus	ppm	2456	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	266	---	---	---

Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: VOLVO0035
Unique No: 11016603
Signed: Sean Felton
Report Date: 08 May 2024



CONSTRUCTION EQUIPMENT



GRAPHS

