



CONSTRUCTION EQUIPMENT

X18458 APAC-GREENVIL VOLVO L180H 5518 - DIESEL ENGINE



Sample No: VCP445337
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X18458 APAC-GREENVIL



SCOTT EQUIPMENT COMPANY LLC - Jackson
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 US 39212
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 T:
 F: (601)326-3359



SAMPLE INFORMATION

Sample Number	VCP445337	---	---	---
Sample Date	02 Apr 2024	---	---	---
Machine Hours	4008	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---



OIL CONDITION

Visc @ 100°C	cSt	█ 12.6	---	---	---
Base Number (BN)	mg KOH/g	█ 8.9	---	---	---
Oxidation (PA)	%	79	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	66	---	---	---
Sulfation (PA)	%	60	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 6	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 3	---	---	---



WEAR METALS

Iron	ppm	█ 6	---	---	---
Copper	ppm	█ 2	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 49	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 1624	---	---	---
Magnesium	ppm	█ 530	---	---	---
Zinc	ppm	█ 1159	---	---	---
Phosphorus	ppm	█ 1041	---	---	---
Barium	ppm	█ <1	---	---	---
Boron	ppm	█ 74	---	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: VOLVO8771
Unique No: 10968327
Signed: Wes Davis
Report Date: 10 Apr 2024



CONSTRUCTION EQUIPMENT



GRAPHS

Iron (ppm)



Lead (ppm)



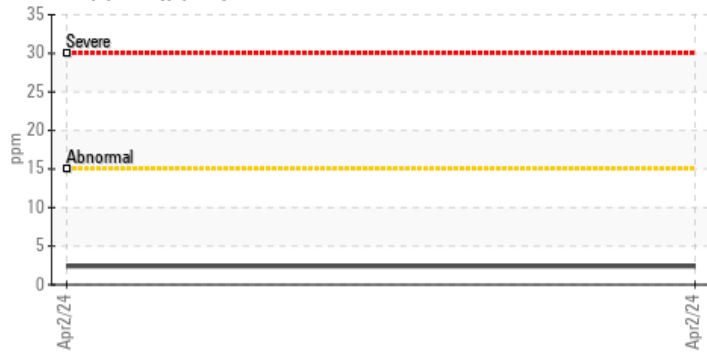
Aluminum (ppm)



Chromium (ppm)



Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number





CONSTRUCTION EQUIPMENT

X18458 APAC VOLVO L180H 5518 - TRANSMISSION (MANUAL)



Sample No: VCP444575
Oil Type: VOLVO AUTOMATIC TRANSMISSION FLUID AT102
Job No: X18458 APAC



SAMPLE INFORMATION

Sample Number	VCP444575	---	---	---
Sample Date	02 Apr 2024	---	---	---
Machine Hours	4008	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	█ 28.31	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 7	---	---	---
Sodium	ppm	█ 5	---	---	---
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 oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	█ 68	---	---	---
Copper	ppm	█ 114	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ <1	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 0	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 4	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 227	---	---	---
Magnesium	ppm	█ <1	---	---	---
Zinc	ppm	█ 73	---	---	---
Phosphorus	ppm	█ 213	---	---	---
Barium	ppm	█ 10	---	---	---
Boron	ppm	█ 57	---	---	---

Depot: VOLVO8771
Unique No: 10968572
Signed: Jonathan Hester
Report Date: 15 Apr 2024

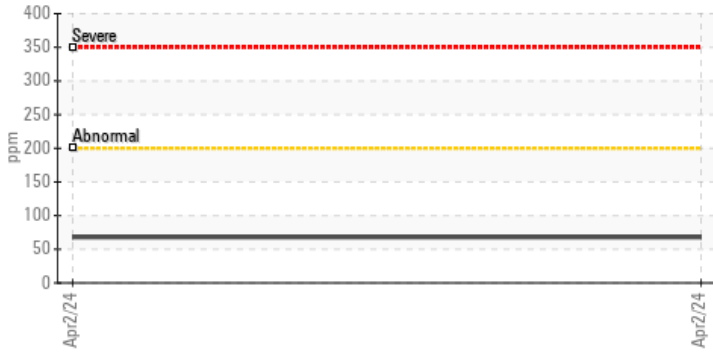


CONSTRUCTION EQUIPMENT

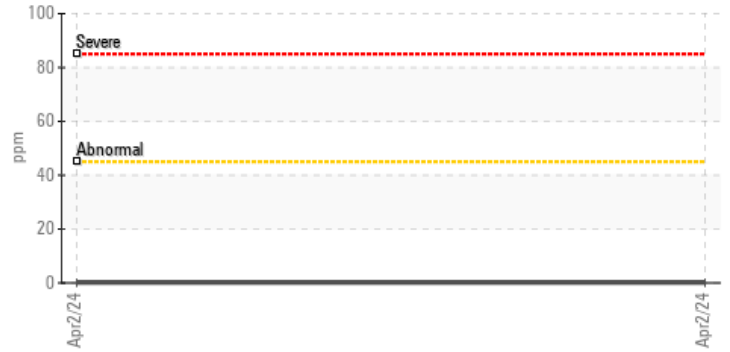


GRAPHS

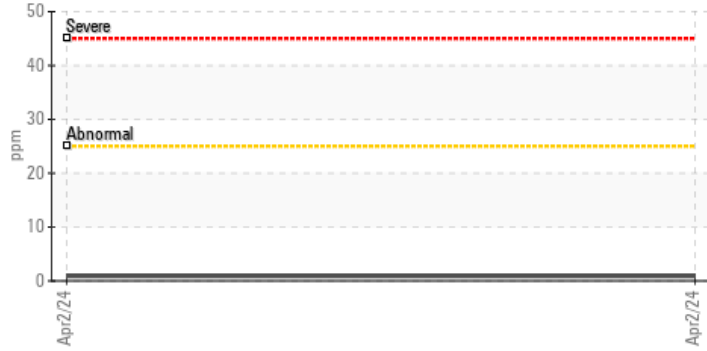
Iron (ppm)



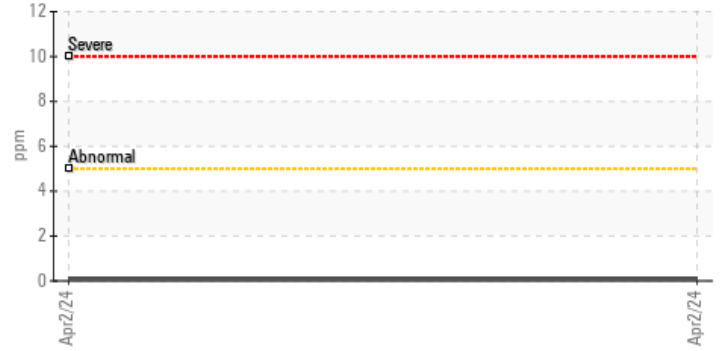
Lead (ppm)



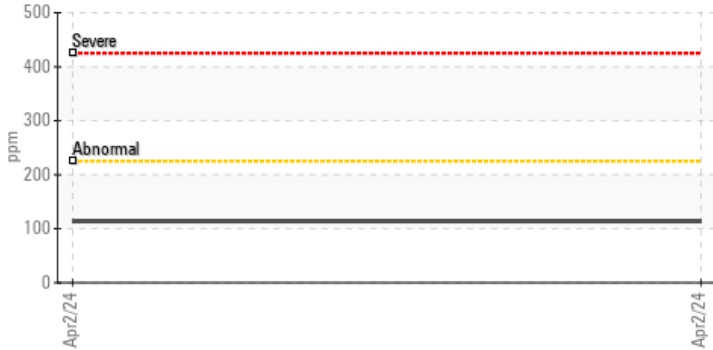
Aluminum (ppm)



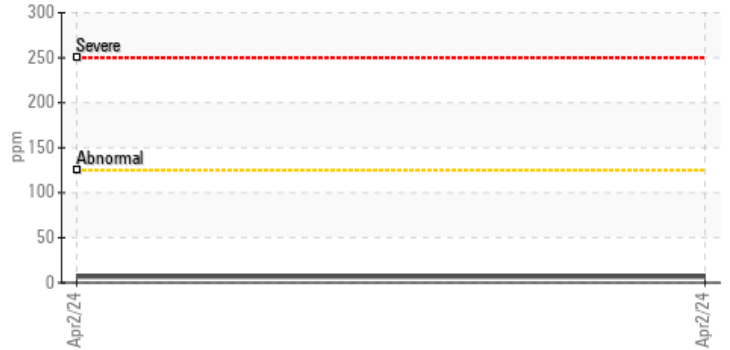
Chromium (ppm)



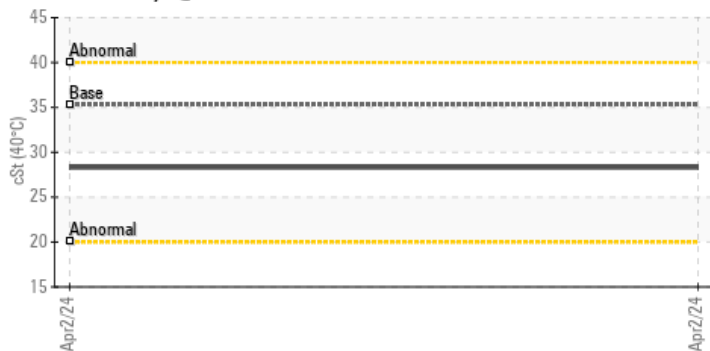
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives





CONSTRUCTION EQUIPMENT

X18458 APAC VOLVO L180H 5518 - HYDRAULIC SYSTEM



Sample No: VCP444577
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: X18458 APAC



SAMPLE INFORMATION

Sample Number	VCP444577	---	---	---
Sample Date	02 Apr 2024	---	---	---
Machine Hours	4008	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	█ 42.8	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.35	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		█ 7400	---	---	---
Particles >6µm		█ 803	---	---	---
Particles >14µm		█ 37	---	---	---
ISO 4406:1999 (c)		20/17/12	---	---	---
Silicon	ppm	█ 1	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 0	---	---	---

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



ADDITIVES

Calcium	ppm	█ 85	---	---	---
Magnesium	ppm	█ 0	---	---	---
Zinc	ppm	█ 432	---	---	---
Phosphorus	ppm	█ 339	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 0	---	---	---

Depot: VOLVO8771
Unique No: 10968493
Signed: Wes Davis
Report Date: 10 Apr 2024

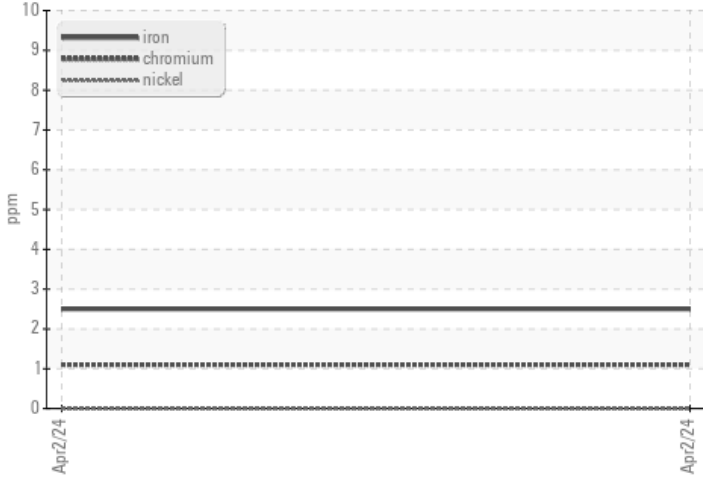


CONSTRUCTION EQUIPMENT

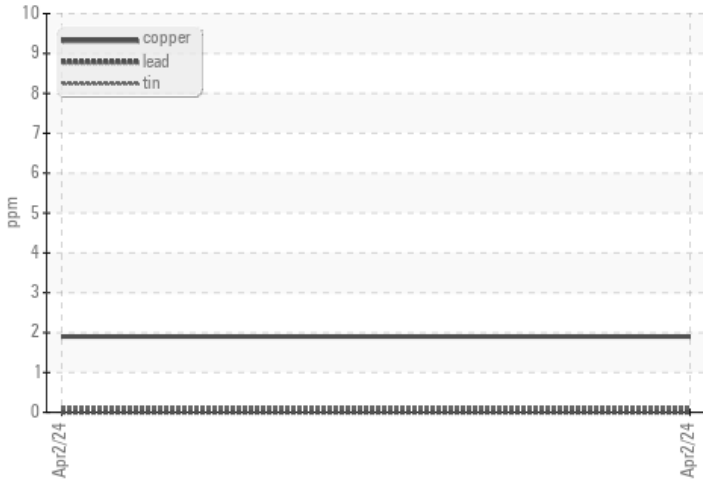


VOLVO GRAPHS

Ferrous Alloys



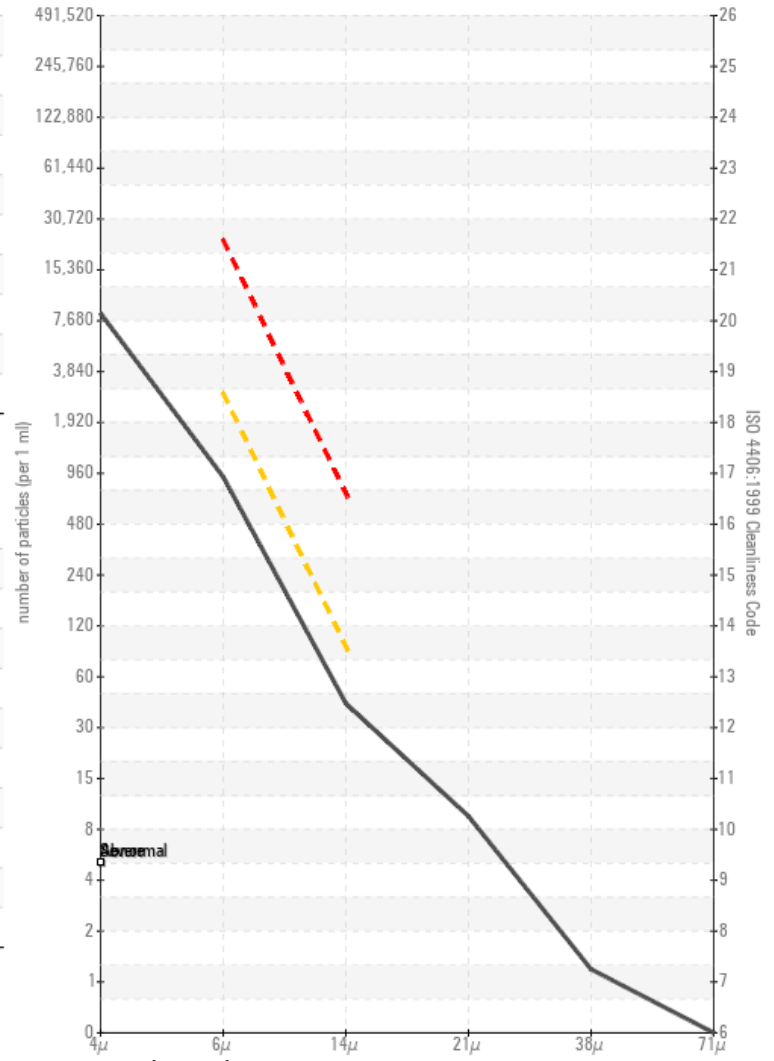
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number





CONSTRUCTION EQUIPMENT

X18458 APAC VOLVO L180H 5518 - FRONT AXLE



Sample No: VCP445350
Oil Type: VOLVO WB 102
Job No: X18458 APAC



SAMPLE INFORMATION

Sample Number	VCP445350	---	---	---
Sample Date	02 Apr 2024	---	---	---
Machine Hours	4008	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	█ 46.32	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 8	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 0	---	---	---

Diagnosis

Resample at the next service interval to monitor. 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.



WEAR METALS

Iron	ppm	█ 106	---	---	---
Copper	ppm	█ 19	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ <1	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 3	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 4	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 2737	---	---	---
Magnesium	ppm	█ 14	---	---	---
Zinc	ppm	█ 1181	---	---	---
Phosphorus	ppm	█ 981	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	53	---	---	---

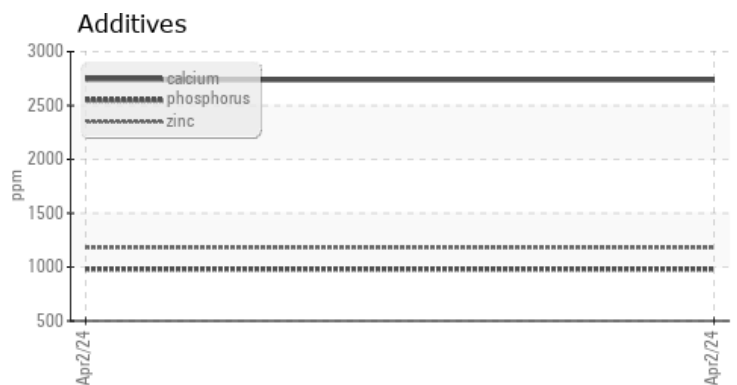
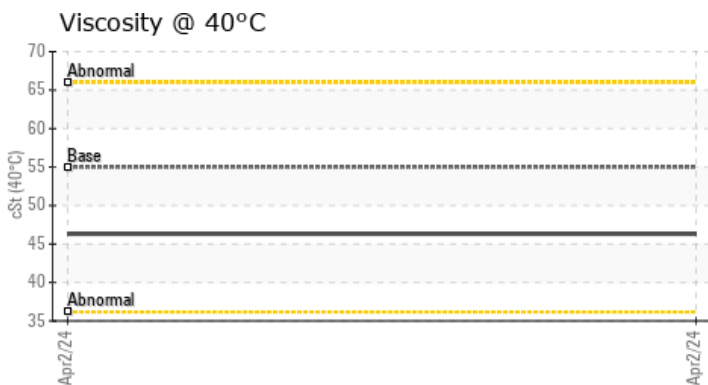
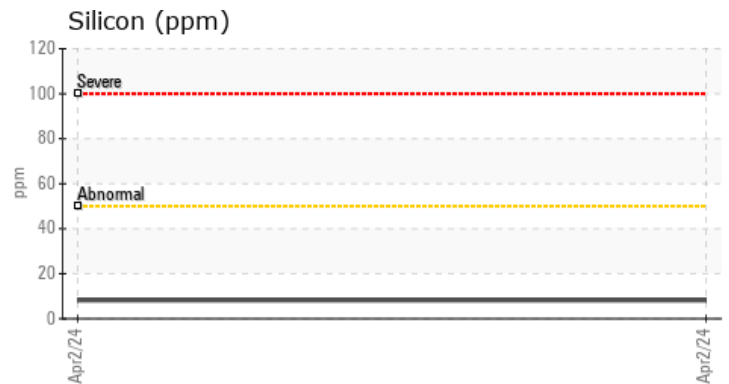
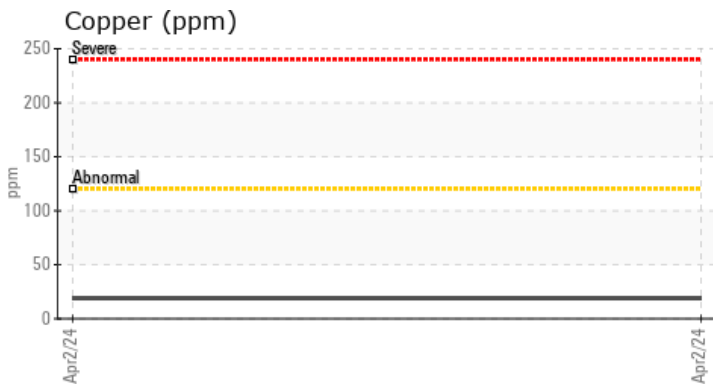
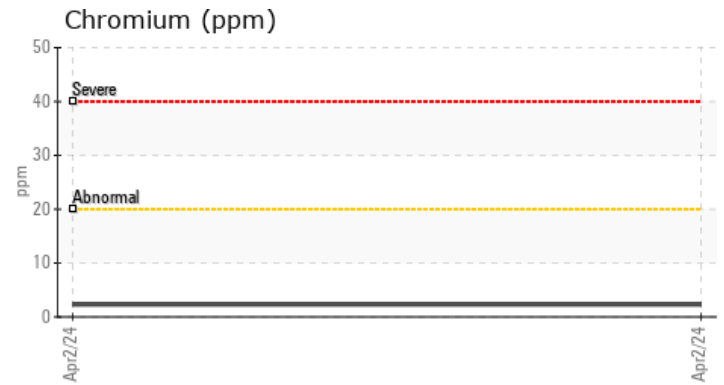
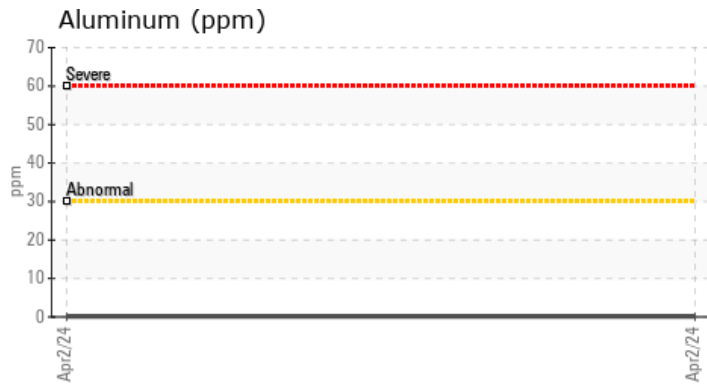
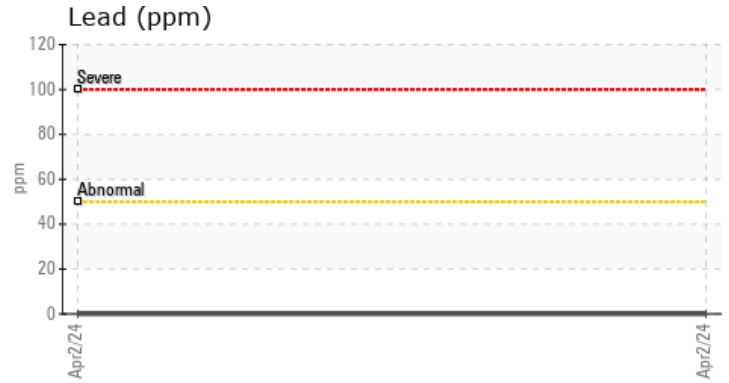
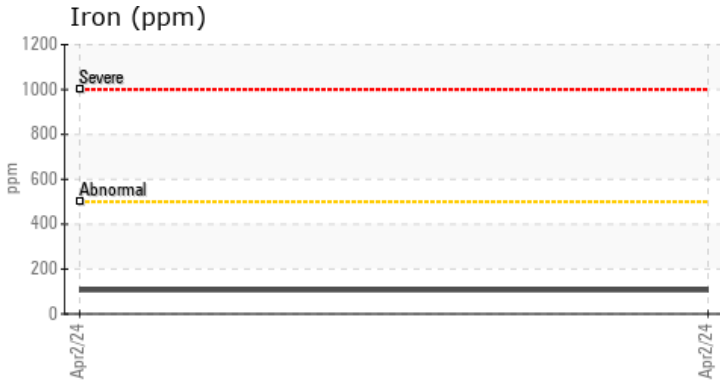
Depot: VOLVO8771
Unique No: 10968567
Signed: Jonathan Hester
Report Date: 15 Apr 2024



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

X18458 APAC VOLVO L180H 5518 - REAR AXLE



Sample No: VCP445338
Oil Type: VOLVO WB 102
Job No: X18458 APAC



SAMPLE INFORMATION

Sample Number	VCP445338	---	---	---
Sample Date	02 Apr 2024	---	---	---
Machine Hours	4008	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	█ 47.41	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 8	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 0	---	---	---



WEAR METALS

Iron	ppm	█ 56	---	---	---
Copper	ppm	█ 9	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 0	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ 3	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 3	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 2696	---	---	---
Magnesium	ppm	█ 16	---	---	---
Zinc	ppm	█ 1172	---	---	---
Phosphorus	ppm	█ 945	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 47	---	---	---

Diagnosis

Resample at the next service interval to monitor. 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: VOLVO8771
Unique No: 10968568
Signed: Jonathan Hester
Report Date: 15 Apr 2024



CONSTRUCTION EQUIPMENT



GRAPHS

