



CONSTRUCTION EQUIPMENT

548480 VLJ CONSTR ROADTEC SB2500E 4300 - DRIVE - DIESEL ENGINE



Sample No: VCP450936
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 548480 VLJ CONSTR



SAMPLE INFORMATION

Sample Number	VCP450936	---	---	---
Sample Date	02 May 2024	---	---	---
Machine Hours	389	---	---	---
Oil Hours	389	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.8	---	---	---
Base Number (BN)	mg KOH/g	█ 5.5	---	---	---
Oxidation (PA)	%	65	---	---	---

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	71	---	---	---
Sulfation (PA)	%	51	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 18	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 3	---	---	---



WEAR METALS

Iron	ppm	█ 19	---	---	---
Copper	ppm	█ 442	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 61	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	█ 6	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 1186	---	---	---
Magnesium	ppm	█ 940	---	---	---
Zinc	ppm	█ 1279	---	---	---
Phosphorus	ppm	█ 1073	---	---	---
Barium	ppm	█ 11	---	---	---
Boron	ppm	█ 8	---	---	---

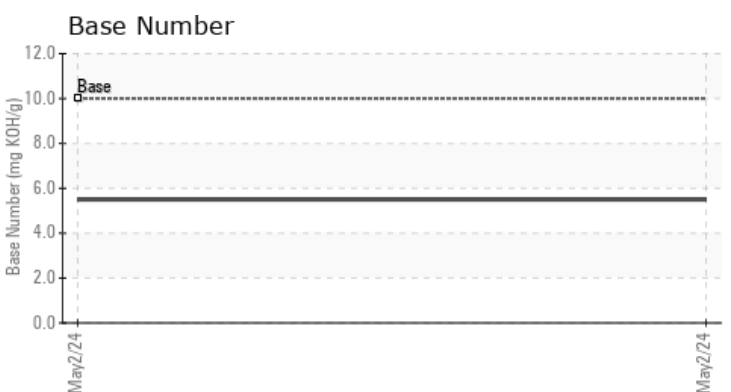
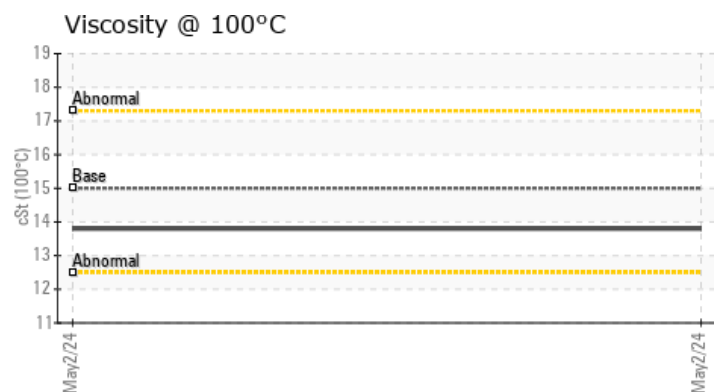
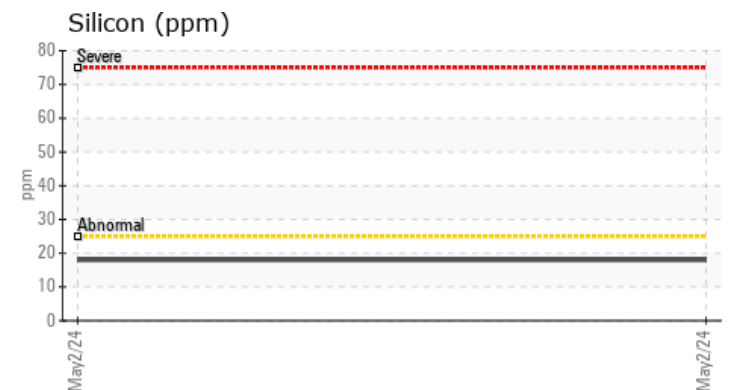
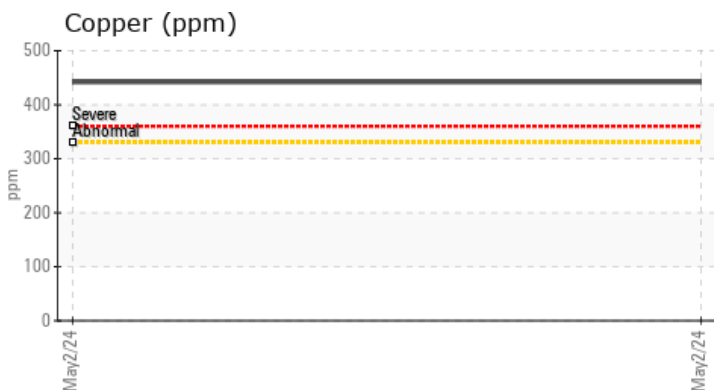
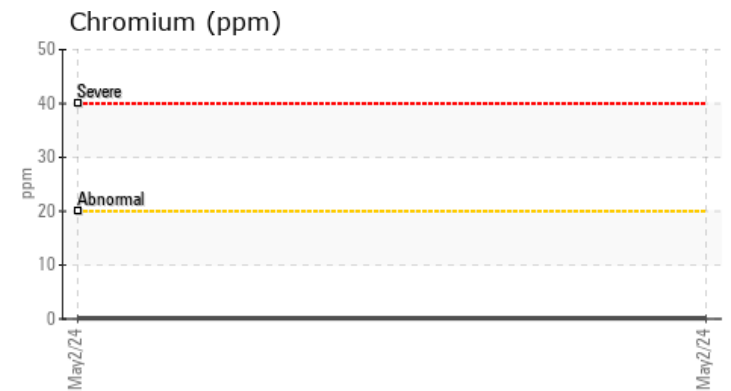
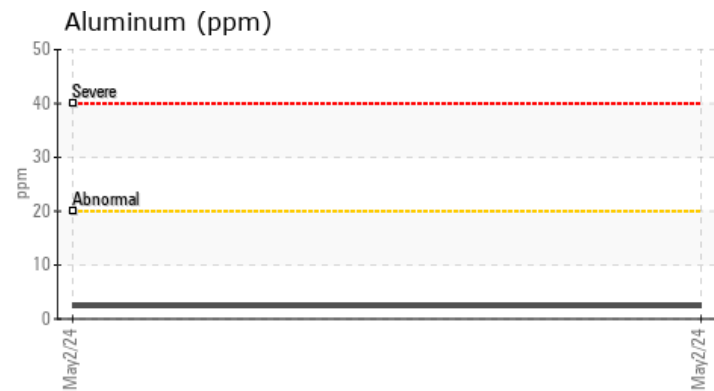
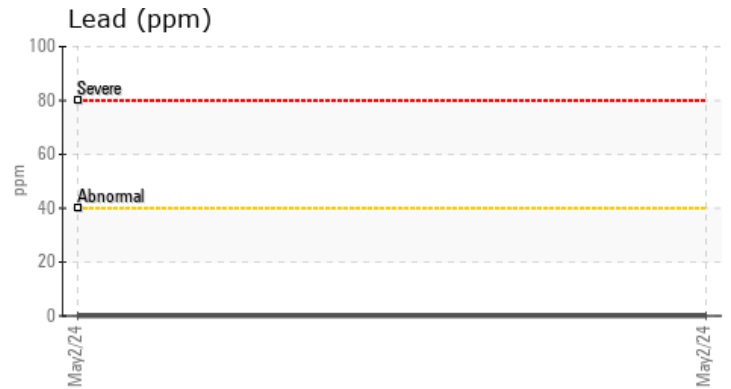
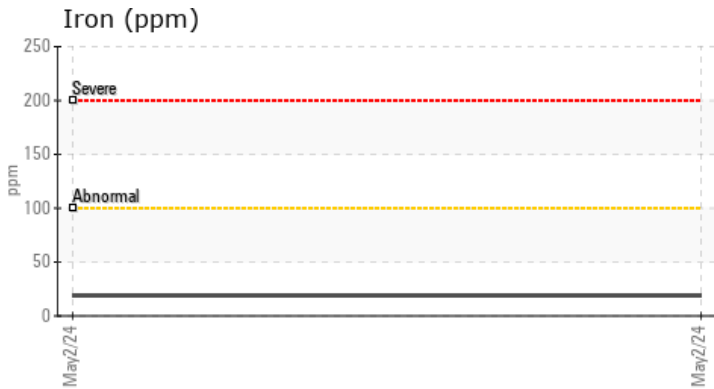
Depot: VOLVO0093
Unique No: 11061896
Signed: Sean Felton
Report Date: 07 Jun 2024



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

548480 VLJ CONSTR ROADTEC SB2500E 4300 - HYDRAULIC SYSTEM



Sample No: VCP444384
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 548480 VLJ CONSTR



SAMPLE INFORMATION

Sample Number	VCP444384	---	---	---
Sample Date	02 May 2024	---	---	---
Machine Hours	389	---	---	---
Oil Hours	389	---	---	---
Oil Changed	Not Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	█ 46.1	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.44	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		▲ 21832	---	---	---
Particles >6µm		▲ 3200	---	---	---
Particles >14µm		● 164	---	---	---
ISO 4406:1999 (c)		22/19/15	---	---	---
Silicon	ppm	█ 1	---	---	---
Sodium	ppm	█ 1	---	---	---
Potassium	ppm	█ 2	---	---	---

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	█ 3	---	---	---
Copper	ppm	█ 7	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 0	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 0	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 56	---	---	---
Magnesium	ppm	█ 3	---	---	---
Zinc	ppm	█ 375	---	---	---
Phosphorus	ppm	█ 339	---	---	---
Barium	ppm	█ <1	---	---	---
Boron	ppm	█ 0	---	---	---

Depot: VOLVO0093
Unique No: 11062173
Signed: Wes Davis
Report Date: 06 Jun 2024

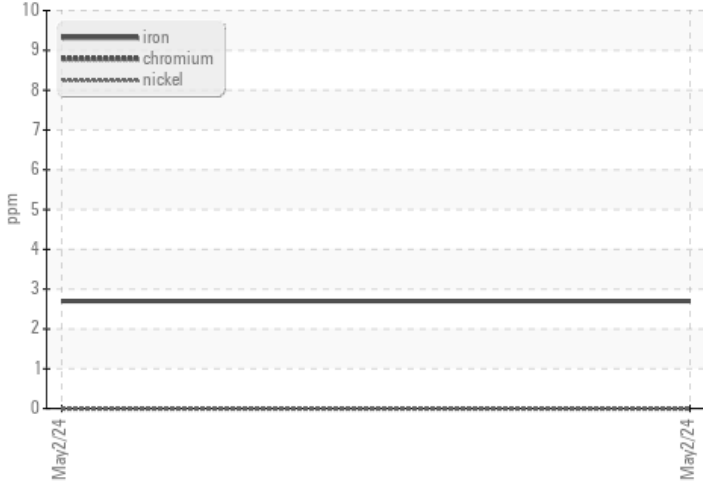


CONSTRUCTION EQUIPMENT

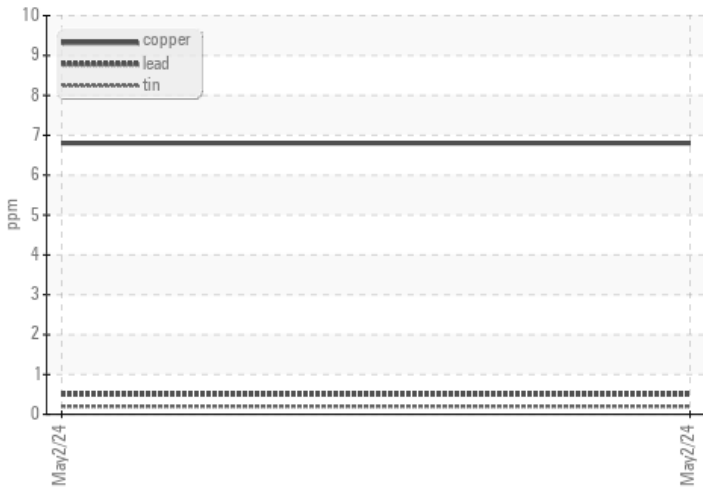


VOLVO GRAPHS

Ferrous Alloys



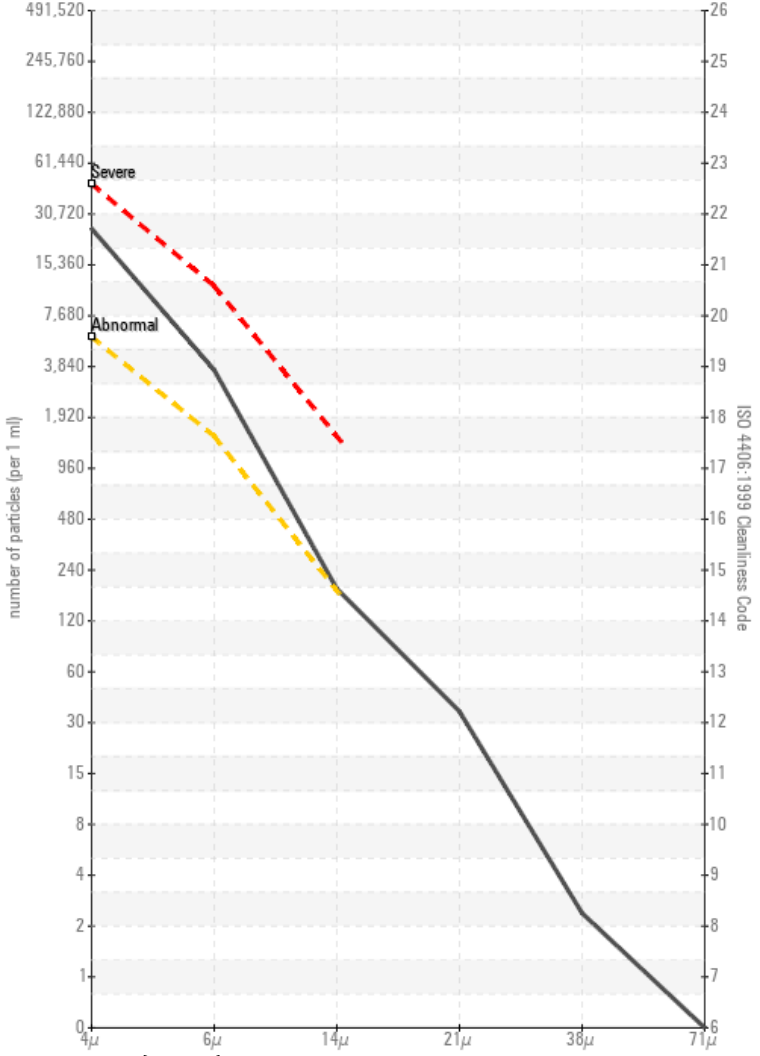
Non-ferrous Metals



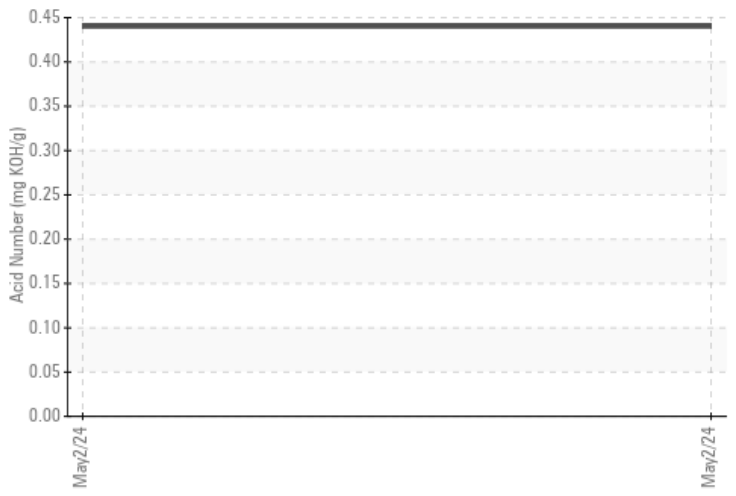
Viscosity @ 40°C



Particle Count



Acid Number



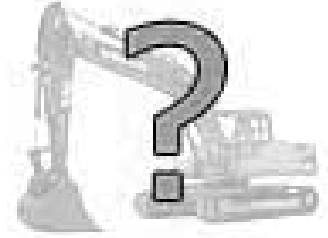


CONSTRUCTION EQUIPMENT

548480 VLJ CONST ROADTEC SB2500E 4300 - DRIVE - FRONT LEFT FINAL DRIVE



Sample No: VCP443750
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 548480 VLJ CONST



SAMPLE INFORMATION

Sample Number	VCP443750	---	---	---
Sample Date	02 May 2024	---	---	---
Machine Hours	389	---	---	---
Oil Hours	389	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	█ 139	---	---	---
-------------	-----	-------	-----	-----	-----



CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 9	---	---	---



WEAR METALS

Iron	ppm	█ 113	---	---	---
Copper	ppm	█ 9	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 1	---	---	---
Chromium	ppm	█ 5	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 5	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 87	---	---	---
Magnesium	ppm	█ 4	---	---	---
Zinc	ppm	█ 106	---	---	---
Phosphorus	ppm	█ 985	---	---	---
Barium	ppm	19	---	---	---
Boron	ppm	█ 269	---	---	---

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.

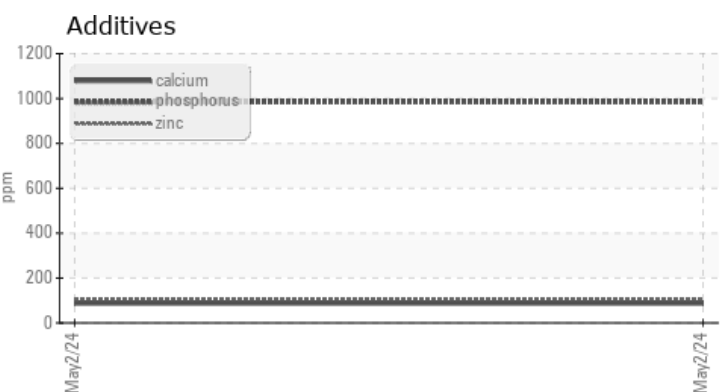
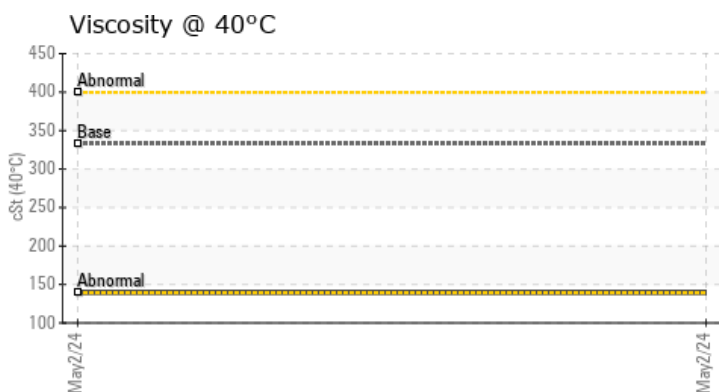
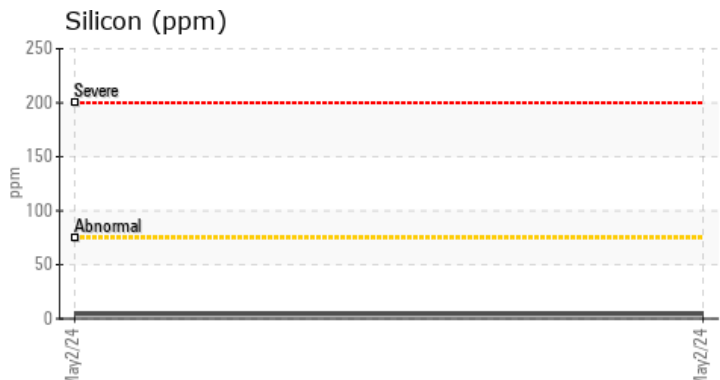
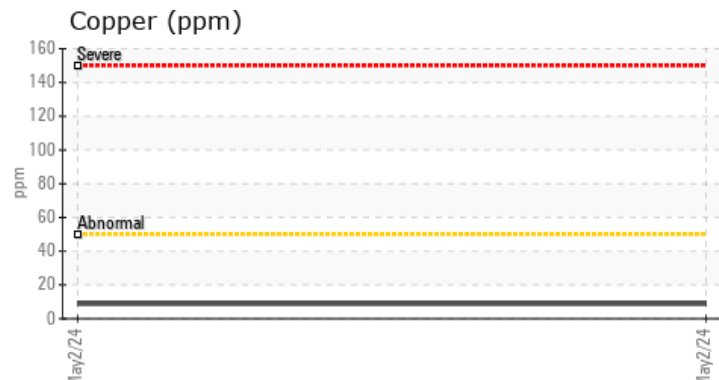
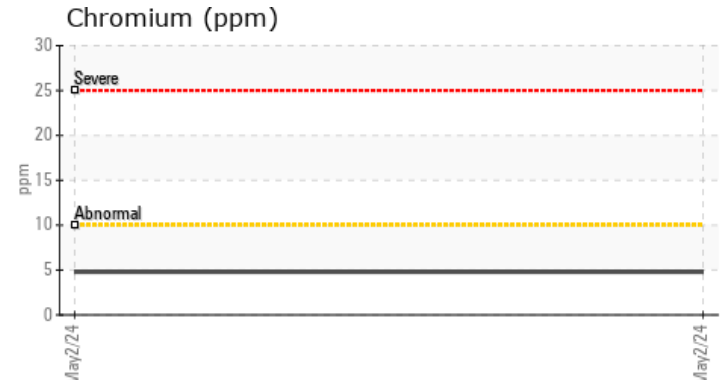
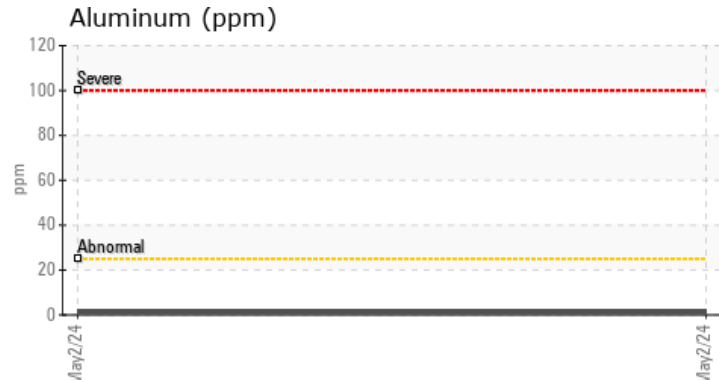
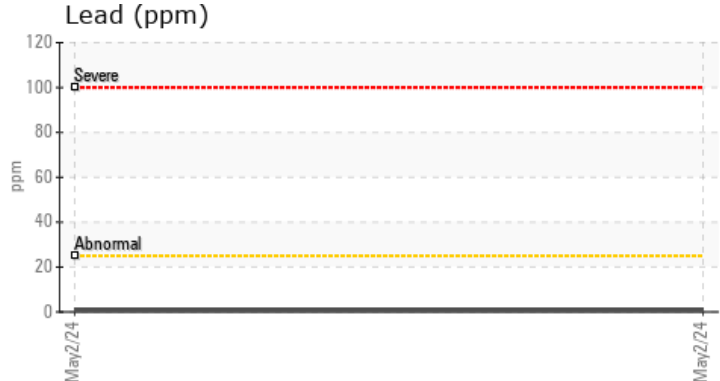
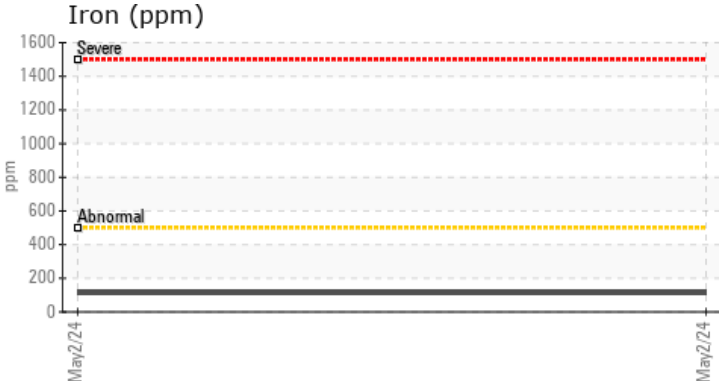
Depot: VOLVO0093
Unique No: 11062682
Signed: Don Baldrige
Report Date: 07 Jun 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS





CONSTRUCTION EQUIPMENT

548480 VLJ CONST ROADTEC SB2500E 4300 - DRIVE - FRONT RIGHT FINAL DRIVE



Sample No: VCP444735
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 548480 VLJ CONST



SAMPLE INFORMATION

Sample Number	VCP444735	---	---	---
Sample Date	02 May 2024	---	---	---
Machine Hours	389	---	---	---
Oil Hours	389	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	█ 139	---	---	---
-------------	-----	-------	-----	-----	-----



CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 3	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 8	---	---	---

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	█ 88	---	---	---
Copper	ppm	█ 8	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ <1	---	---	---
Chromium	ppm	█ 4	---	---	---
Molybdenum	ppm	█ 0	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 4	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 48	---	---	---
Magnesium	ppm	█ 2	---	---	---
Zinc	ppm	█ 72	---	---	---
Phosphorus	ppm	█ 968	---	---	---
Barium	ppm	17	---	---	---
Boron	ppm	█ 238	---	---	---

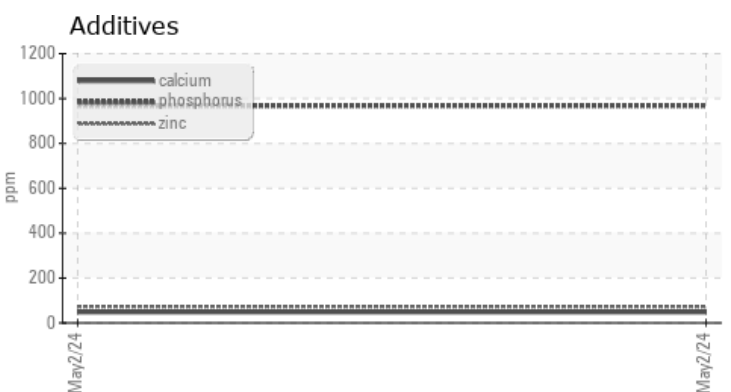
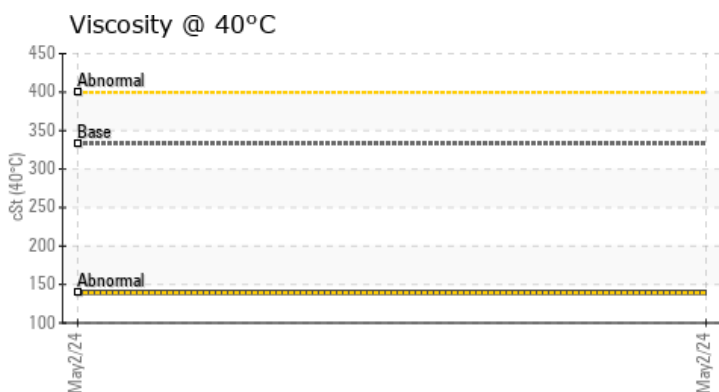
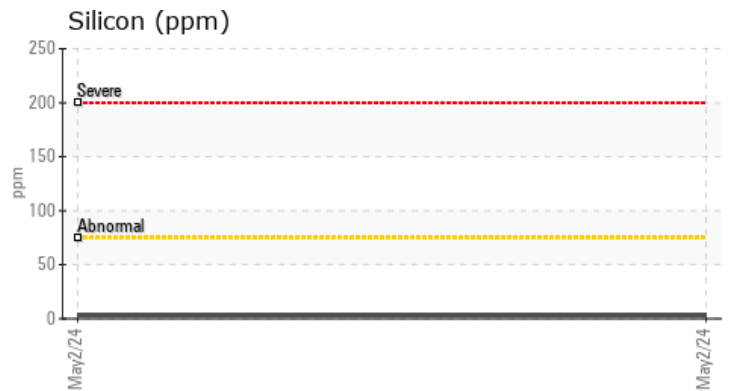
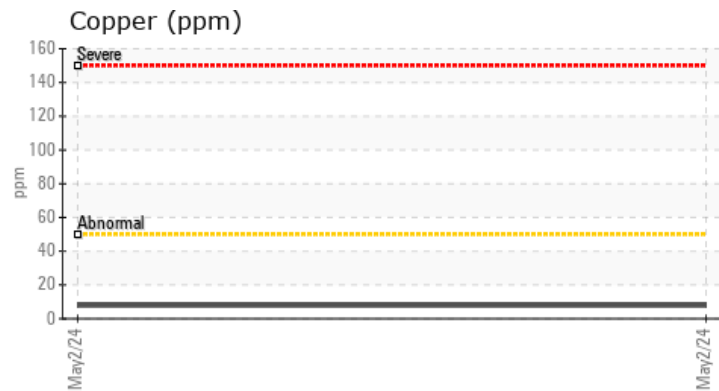
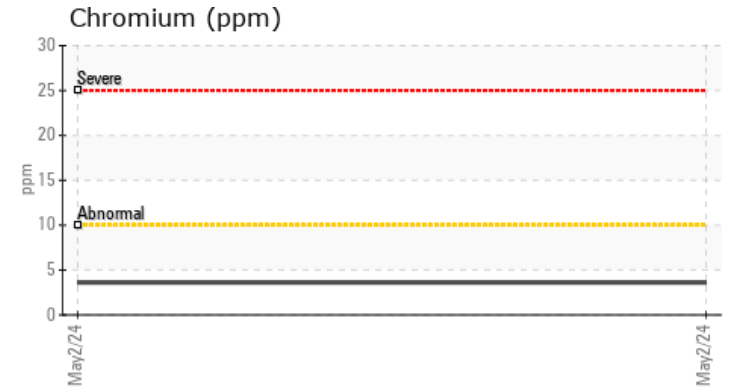
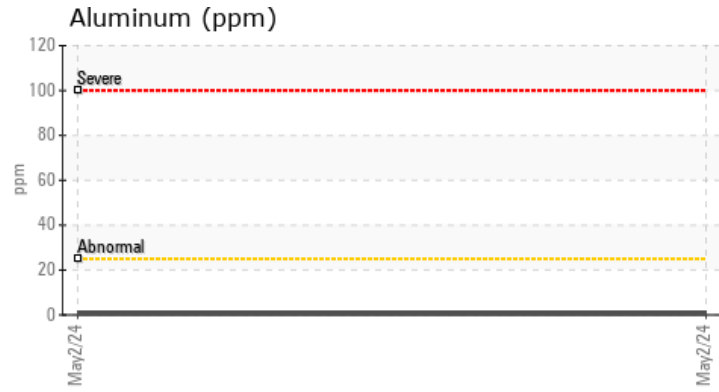
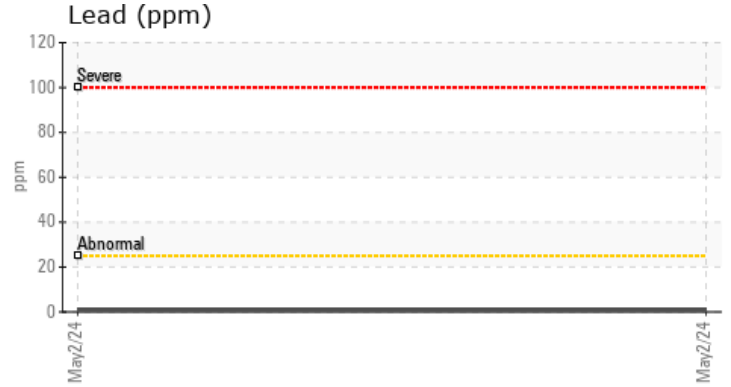
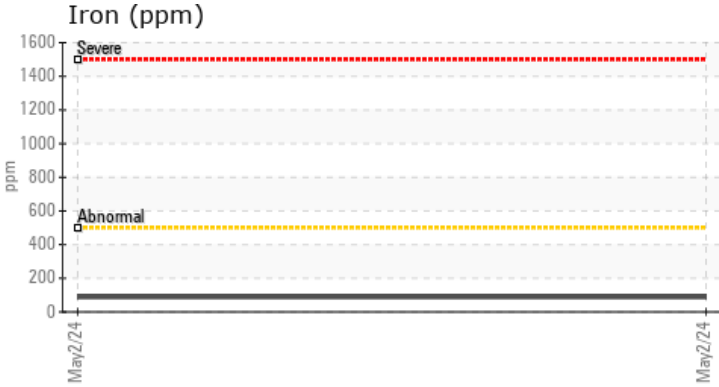
Depot: VOLVO0093
Unique No: 11062670
Signed: Don Baldrige
Report Date: 07 Jun 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS





CONSTRUCTION EQUIPMENT

548480 VLJ CONST ROADTEC SB2500E 4300 - DRIVE - REAR LEFT FINAL DRIVE



Sample No: VCP449947
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 548480 VLJ CONST



SAMPLE INFORMATION

Sample Number	VCP449947	---	---	---
Sample Date	02 May 2024	---	---	---
Machine Hours	389	---	---	---
Oil Hours	389	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	█ 136	---	---	---
-------------	-----	-------	-----	-----	-----



CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 7	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 10	---	---	---

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	█ 102	---	---	---
Copper	ppm	█ 27	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	█ 1	---	---	---
Chromium	ppm	█ 3	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 3	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 39	---	---	---
Magnesium	ppm	█ 2	---	---	---
Zinc	ppm	█ 84	---	---	---
Phosphorus	ppm	█ 1001	---	---	---
Barium	ppm	19	---	---	---
Boron	ppm	█ 250	---	---	---

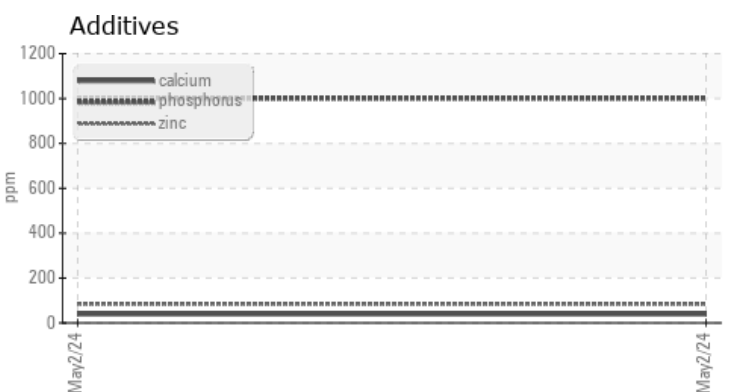
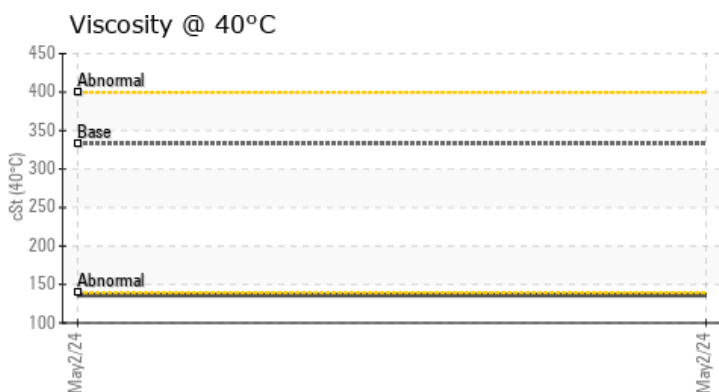
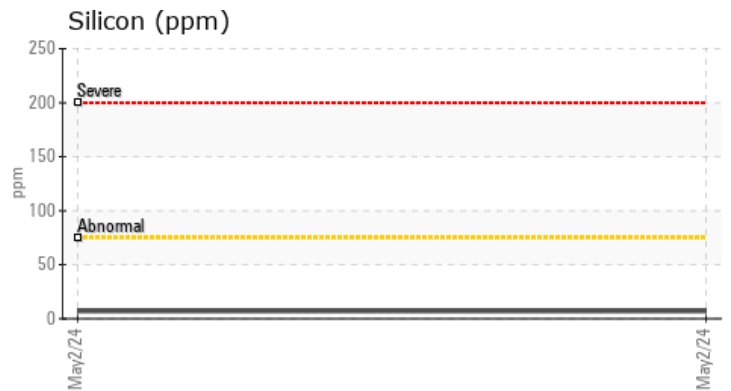
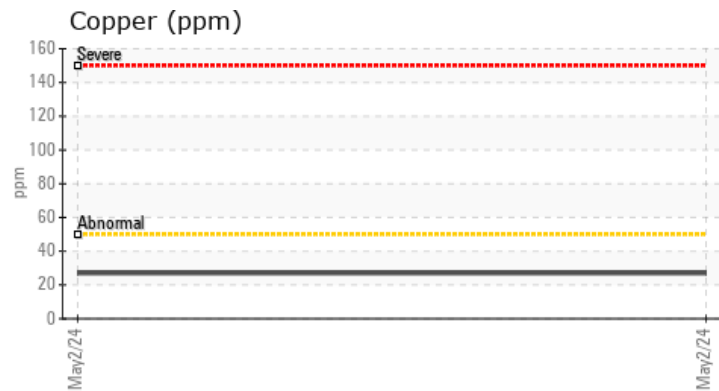
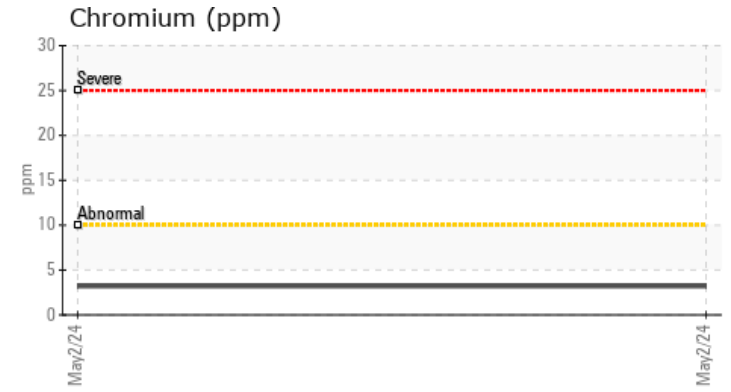
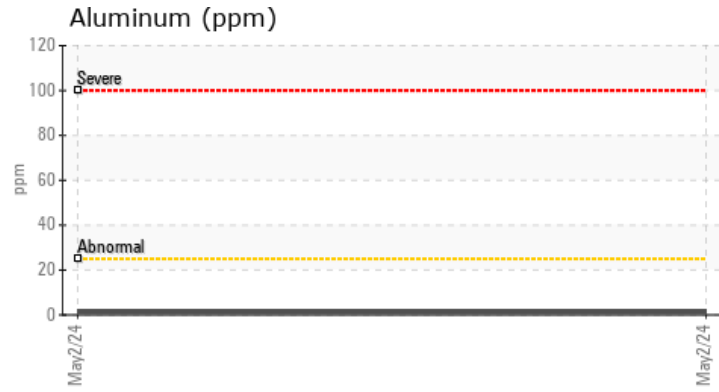
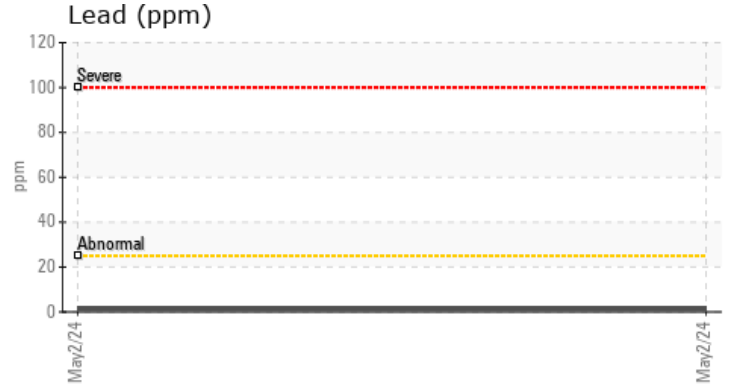
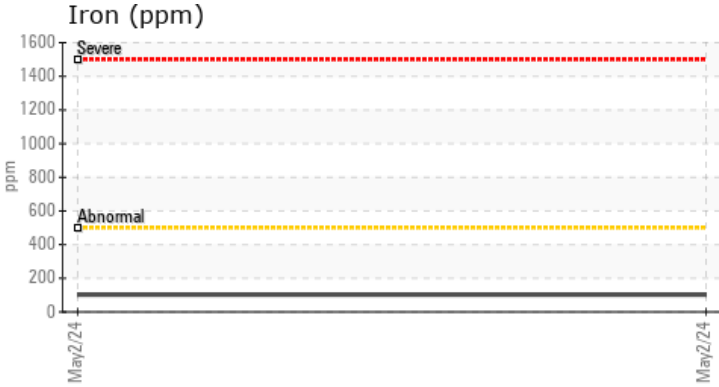
Depot: VOLVO0093
Unique No: 11062673
Signed: Don Baldrige
Report Date: 07 Jun 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS



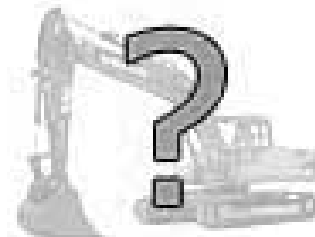


CONSTRUCTION EQUIPMENT

548480 VLJ CONST ROADTEC SB2500E 4300 - DRIVE - REAR RIGHT FINAL DRIVE



Sample No: VCP444373
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 548480 VLJ CONST



SAMPLE INFORMATION

Sample Number	VCP444373	---	---	---
Sample Date	02 May 2024	---	---	---
Machine Hours	389	---	---	---
Oil Hours	389	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	█ 136	---	---	---
-------------	-----	-------	-----	-----	-----



CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 10	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 10	---	---	---

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	█ 148	---	---	---
Copper	ppm	█ 27	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	█ 1	---	---	---
Chromium	ppm	█ 4	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 4	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 44	---	---	---
Magnesium	ppm	█ 2	---	---	---
Zinc	ppm	█ 85	---	---	---
Phosphorus	ppm	█ 984	---	---	---
Barium	ppm	18	---	---	---
Boron	ppm	█ 245	---	---	---

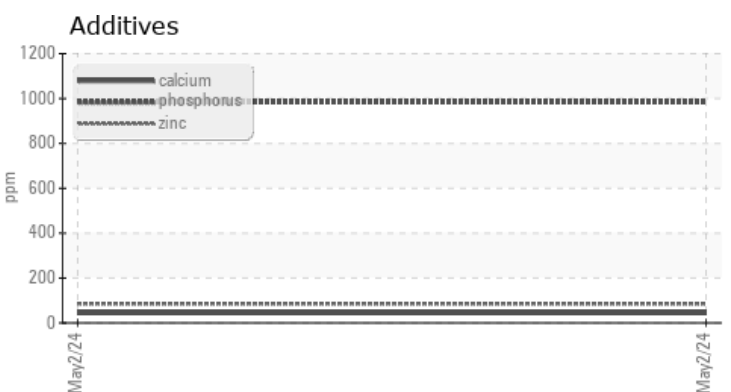
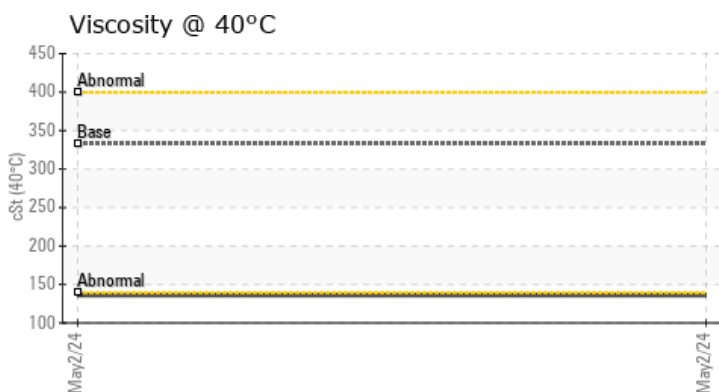
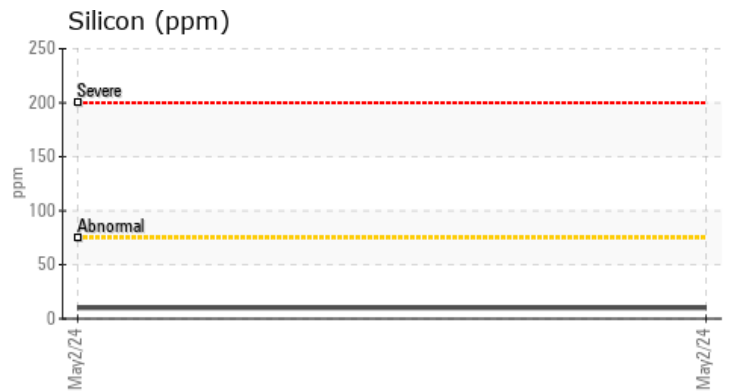
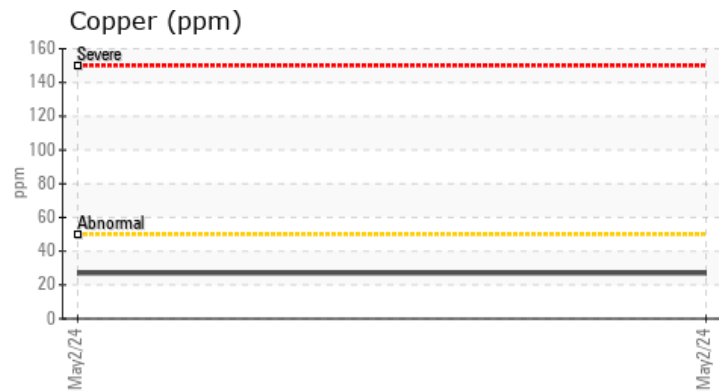
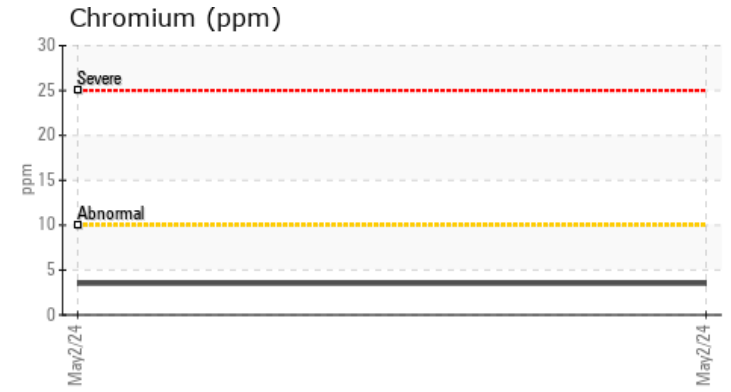
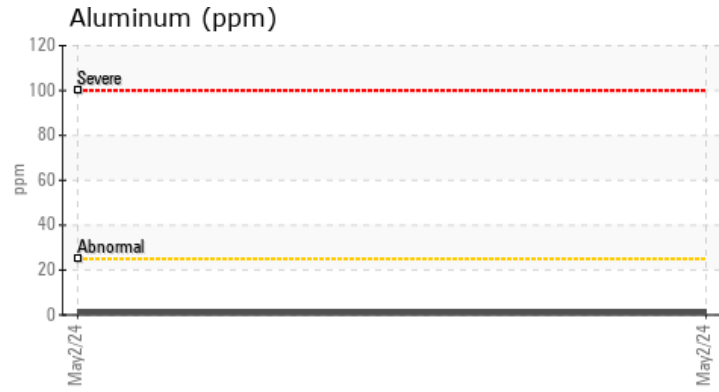
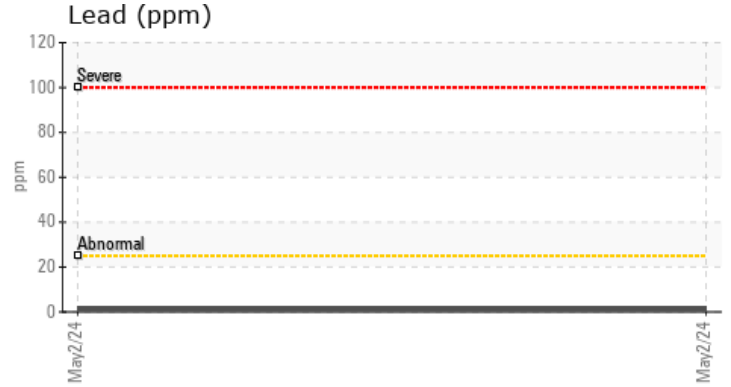
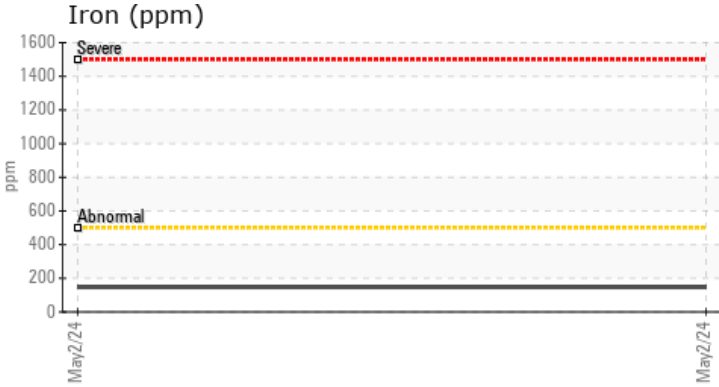
Depot: VOLVO0093
Unique No: 11062667
Signed: Don Baldrige
Report Date: 07 Jun 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS





CONSTRUCTION EQUIPMENT

548480 VLJ CONST ROADTEC SB2500E 4300 - DRIVE - 1 PUMP



Sample No: VCP443747
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 548480 VLJ CONST



SAMPLE INFORMATION

Sample Number	VCP443747	---	---	---
Sample Date	02 May 2024	---	---	---
Machine Hours	389	---	---	---
Oil Hours	389	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
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 TAMPA, FL
 US 33619
 Contact: JOHN FARDELLA
 john.fardella@altg.com
 T: (813)630-0077
 F: (813)630-2233



OIL CONDITION

Visc @ 40°C	cSt	█ 131	---	---	---
-------------	-----	-------	-----	-----	-----



CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 8	---	---	---
Sodium	ppm	█ 12	---	---	---
Potassium	ppm	█ 6	---	---	---

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	█ 479	---	---	---
Copper	ppm	█ 2	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	█ 8	---	---	---
Chromium	ppm	█ 6	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	2	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 8	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 37	---	---	---
Magnesium	ppm	█ 2	---	---	---
Zinc	ppm	15	---	---	---
Phosphorus	ppm	█ 1006	---	---	---
Barium	ppm	█ 2	---	---	---
Boron	ppm	█ 260	---	---	---

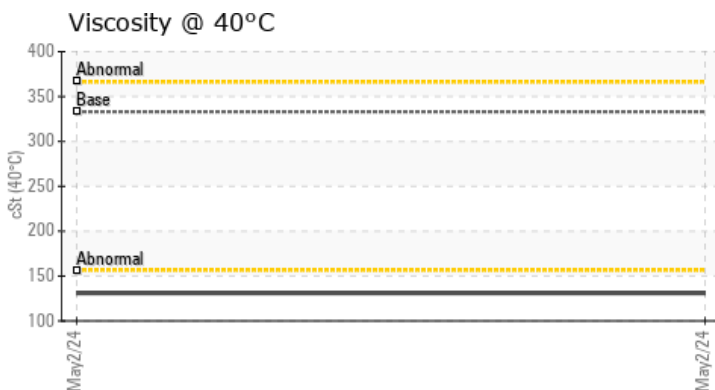
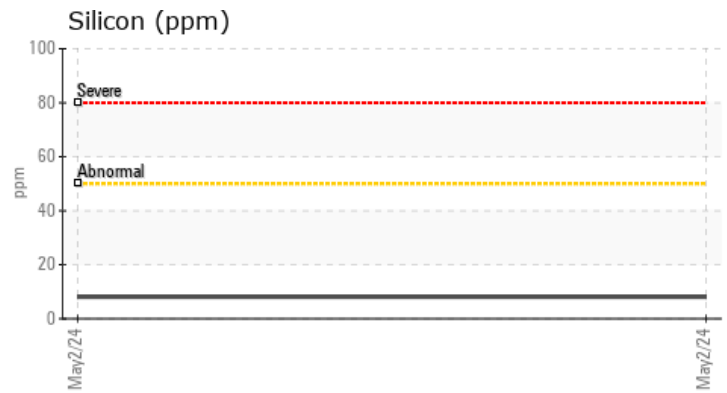
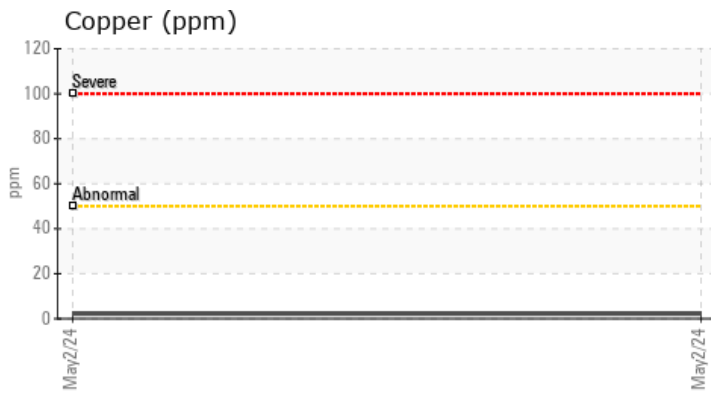
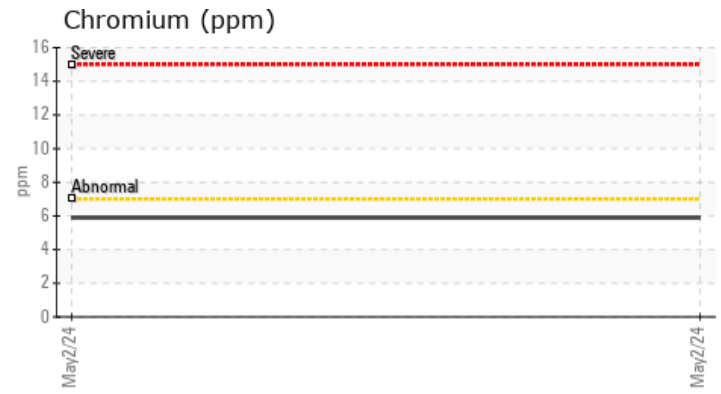
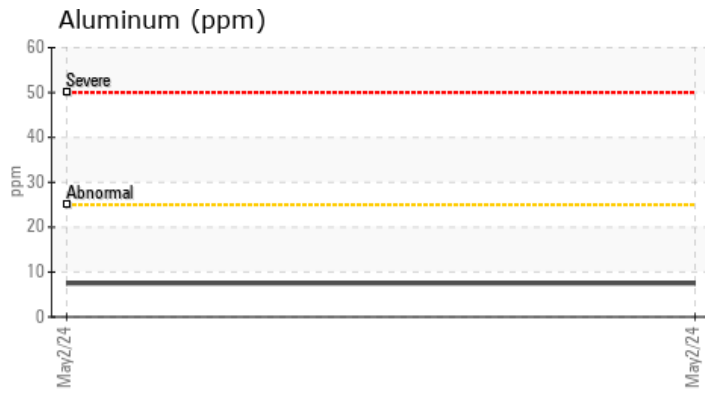
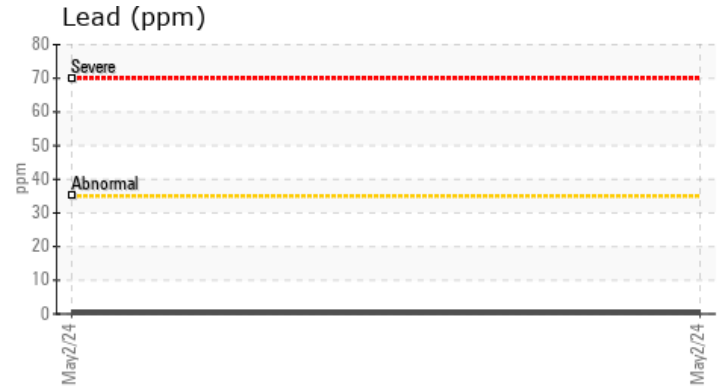
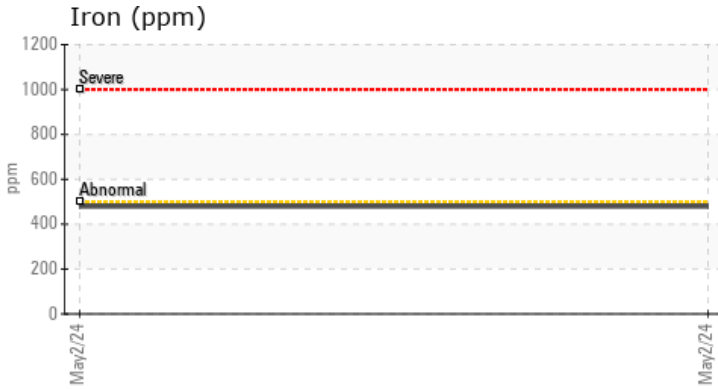
Depot: VOLVO0093
Unique No: 11062650
Signed: Don Baldrige
Report Date: 07 Jun 2024



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

548480 VLJ CONST ROADTEC SB2500E 4300 - DRIVE - 2 PUMP



Sample No: VCP443742
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 548480 VLJ CONST



SAMPLE INFORMATION

Sample Number	VCP443742	---	---	---
Sample Date	02 May 2024	---	---	---
Machine Hours	389	---	---	---
Oil Hours	389	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	█ 132	---	---	---
-------------	-----	-------	-----	-----	-----



CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 19	---	---	---
Sodium	ppm	█ 7	---	---	---
Potassium	ppm	█ 4	---	---	---

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. Confirm oil type. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	█ 349	---	---	---
Copper	ppm	█ 2	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 4	---	---	---
Chromium	ppm	█ 4	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 7	---	---	---
Vanadium	ppm	█ 0	---	---	---



ADDITIVES

Calcium	ppm	█ 73	---	---	---
Magnesium	ppm	█ 3	---	---	---
Zinc	ppm	█ 30	---	---	---
Phosphorus	ppm	█ 1026	---	---	---
Barium	ppm	█ 6	---	---	---
Boron	ppm	█ 240	---	---	---

Depot: VOLVO0093
Unique No: 11062664
Signed: Don Baldrige
Report Date: 07 Jun 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

