



CONSTRUCTION EQUIPMENT

SWA566682-110 VOLVO EC750EL 314116 - COOLANT



Sample No: VCP403032
Oil Type: VOLVO COOLANT (GREEN)
Job No: SWA566682-110



SAMPLE INFORMATION

Sample Number	VCP403032	---	---	---
Sample Date	29 May 2024	---	---	---
Machine Hours	3425	---	---	---
Sample Status	NORMAL	---	---	---

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COOLANT CONDITION

pH	Scale 0-14	■ 7.86	---	---	---
Reserve Alkalinity	Scale 0-20	---	---	---	---
Nitrites	ppm	■ 676	---	---	---
Percentage Glycol	%	■ 51.9	---	---	---
Freezing Point	°C	■ -38	---	---	---

Diagnosis

The fluid is suitable for further service. There is no indication of any contamination in the coolant. Glycol and nitrite levels are acceptable. The pH level of this fluid is within the acceptable limits.



CONTAMINATION

Coolant Appearance	normal	---	---	---
Coolant Color	Yllow	---	---	---

Depot: VOLVO0090
Unique No: 11060274
Signed: Jonathan Hester
Report Date: 05 Jun 2024

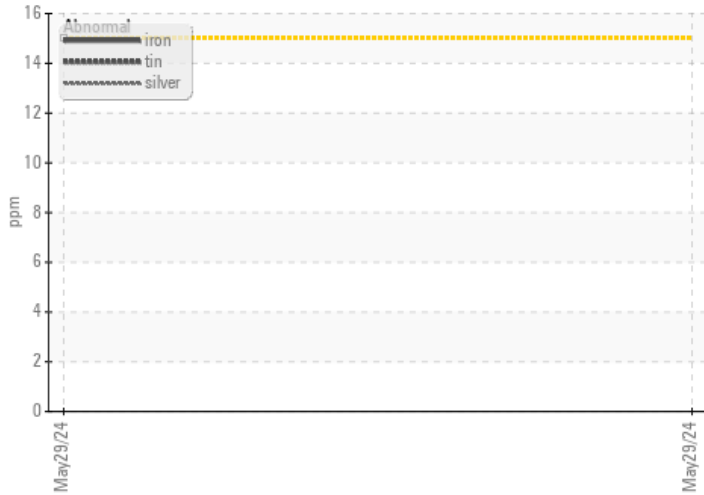


CONSTRUCTION EQUIPMENT

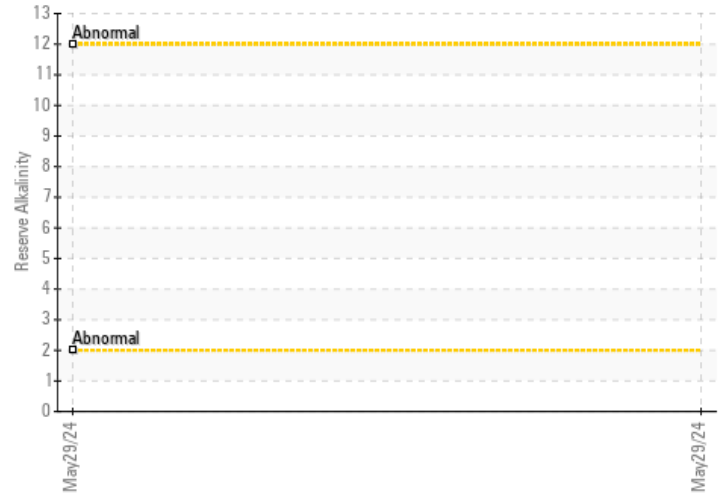


GRAPHS

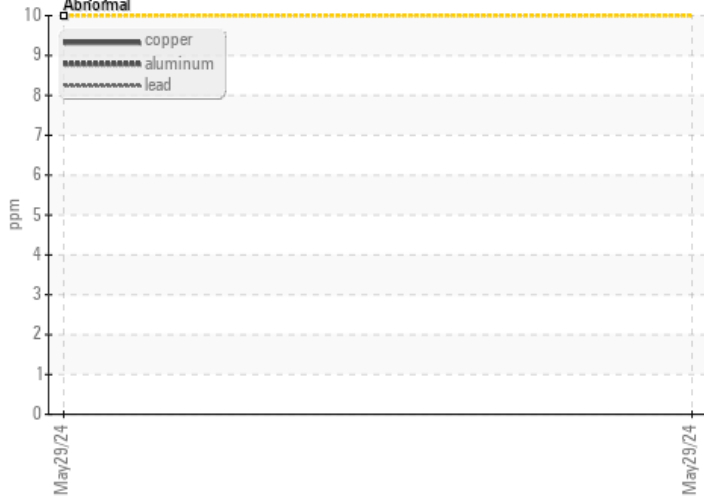
Iron/Tin/Silver



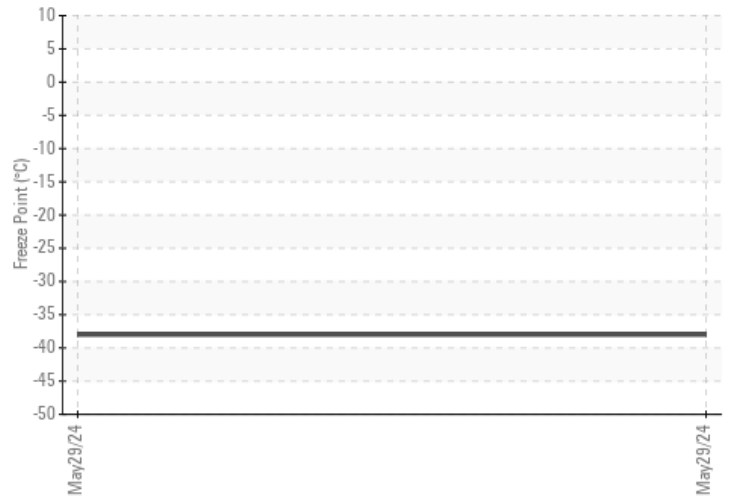
Reserve Alkalinity



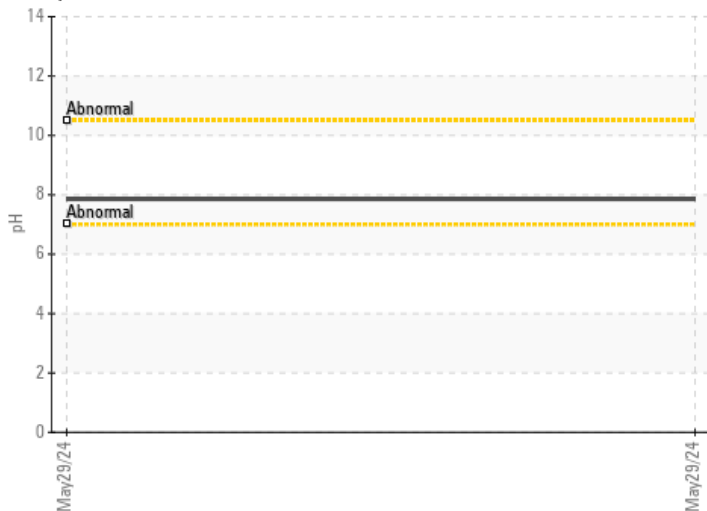
Copper/Aluminum/Lead



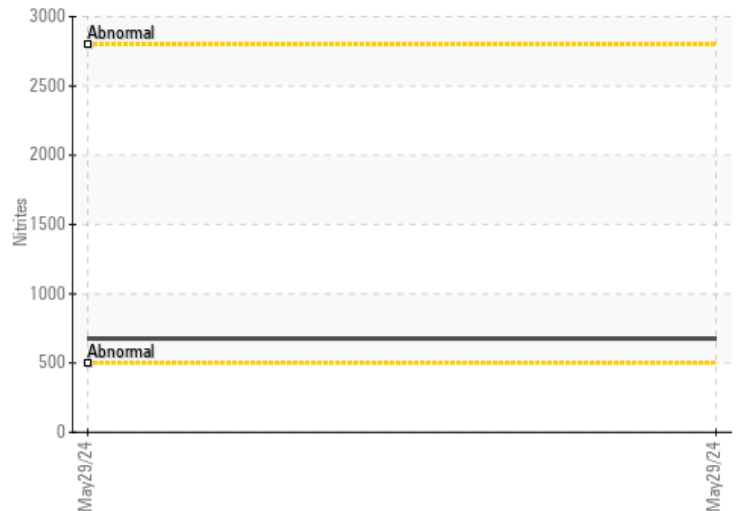
Freeze Point



pH



Nitrites





CONSTRUCTION EQUIPMENT

SWA56682-110 VOLVO EC750EL 314116 - DIESEL ENGINE



Sample No: VCP439044
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SWA56682-110



SAMPLE INFORMATION

Sample Number	VCP439044	VCP408638	---	---
Sample Date	29 May 2024	16 May 2023	---	---
Machine Hours	3425	2900	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.4	█ 12.9	---	---
Base Number (BN)	mg KOH/g	█ 7.3	█ 10.2	---	---
Oxidation (PA)	%	65	83	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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	NEG	---	---
Soot %	%	█ 0.9	█ 0.8	---	---
Nitration (PA)	%	76	65	---	---
Sulfation (PA)	%	57	65	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	█ 0.8	<1.0	---	---
Silicon	ppm	█ 7	█ 6	---	---
Sodium	ppm	█ 1	█ 1	---	---
Potassium	ppm	█ 2	█ 1	---	---

WEAR METALS

Iron	ppm	█ 16	█ 9	---	---
Copper	ppm	█ 9	█ 2	---	---
Lead	ppm	█ 2	█ 1	---	---
Tin	ppm	█ 2	█ <1	---	---
Aluminum	ppm	█ 3	█ <1	---	---
Chromium	ppm	█ 1	█ <1	---	---
Molybdenum	ppm	█ 62	█ 46	---	---
Nickel	ppm	█ 9	█ 3	---	---
Titanium	ppm	█ <1	█ 0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	█ 1234	█ 1567	---	---
Magnesium	ppm	█ 791	█ 480	---	---
Zinc	ppm	█ 1150	█ 1027	---	---
Phosphorus	ppm	█ 963	█ 852	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 14	█ 30	---	---

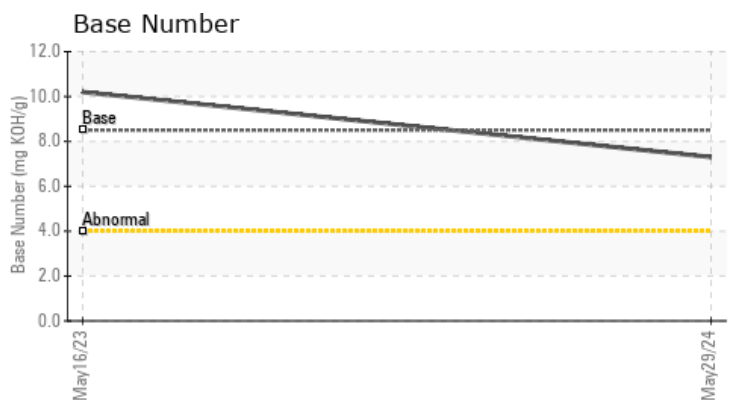
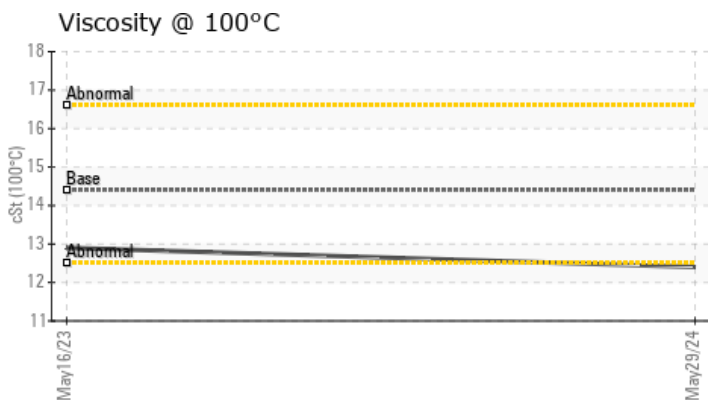
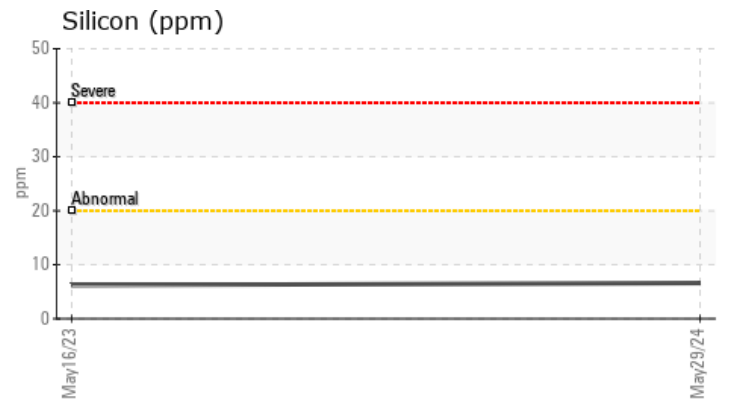
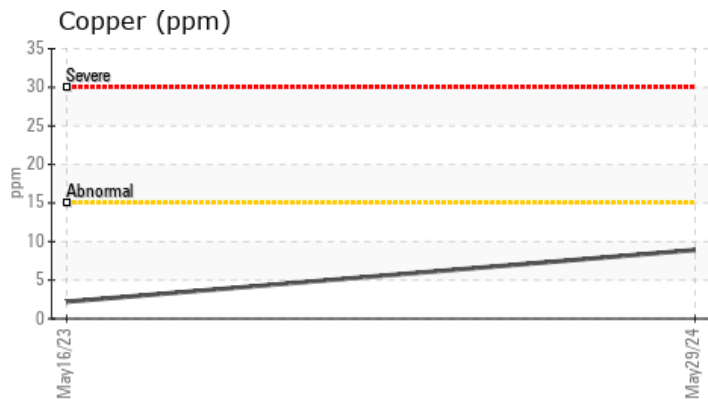
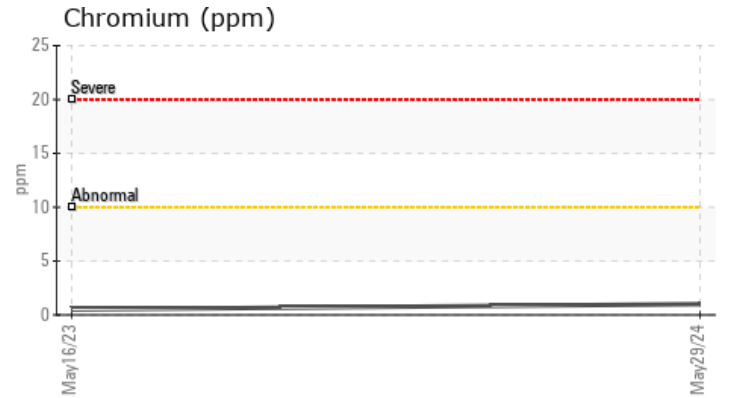
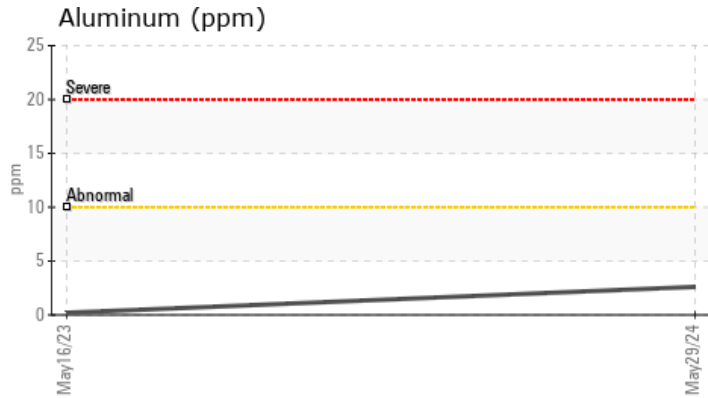
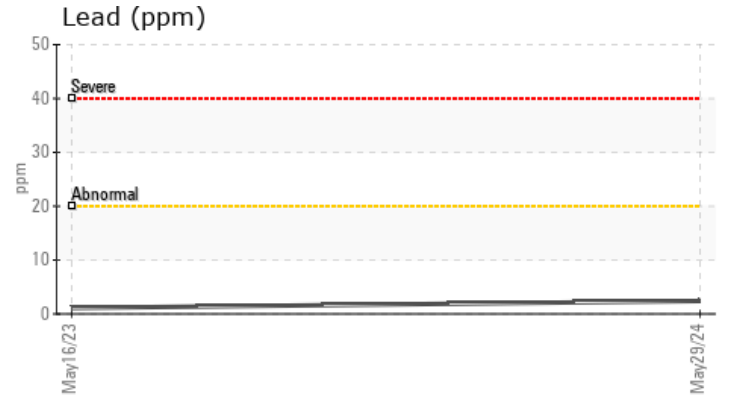
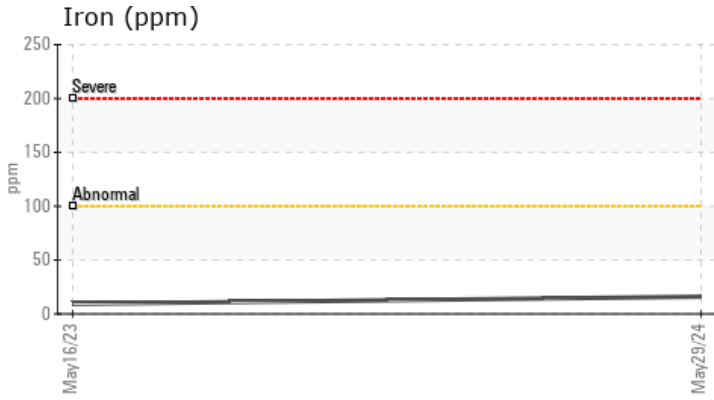
Depot: VOLVO0090
Unique No: 11059527
Signed: Wes Davis
Report Date: 05 Jun 2024



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

SWA56682-110 VOLVO EC750EL 314116 - HYDRAULIC SYSTEM



Sample No: VCP436199
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWA56682-110



SAMPLE INFORMATION

Sample Number	VCP436199	VCP408634	---	---
Sample Date	29 May 2024	16 May 2023	---	---
Machine Hours	3425	2900	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Changed	Changed	---	---
Sample Status	ABNORMAL	ATTENTION	---	---

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OIL CONDITION

Visc @ 40°C	cSt	40.1	43.0	---	---
Acid Number (AN)	mg KOH/g	0.44	0.45	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		▲ 106430	● 50313	---	---
Particles >6µm		● 18348	■ 6078	---	---
Particles >14µm		■ 511	■ 46	---	---
ISO 4406:1999 (c)		24/21/16	23/20/13	---	---
Silicon	ppm	4	5	---	---
Sodium	ppm	2	1	---	---
Potassium	ppm	0	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 high amount of silt (particulates < 14 microns in size) 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	5	---	---
Copper	ppm	15	16	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	0	<1	---	---
Aluminum	ppm	4	2	---	---
Chromium	ppm	1	2	---	---
Molybdenum	ppm	<1	<1	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	0	<1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	112	55	---	---
Magnesium	ppm	5	5	---	---
Zinc	ppm	448	430	---	---
Phosphorus	ppm	381	382	---	---
Barium	ppm	0	0	---	---
Boron	ppm	0	0	---	---

Depot: VOLVO0090
Unique No: 11059689
Signed: Don Baldrige
Report Date: 04 Jun 2024

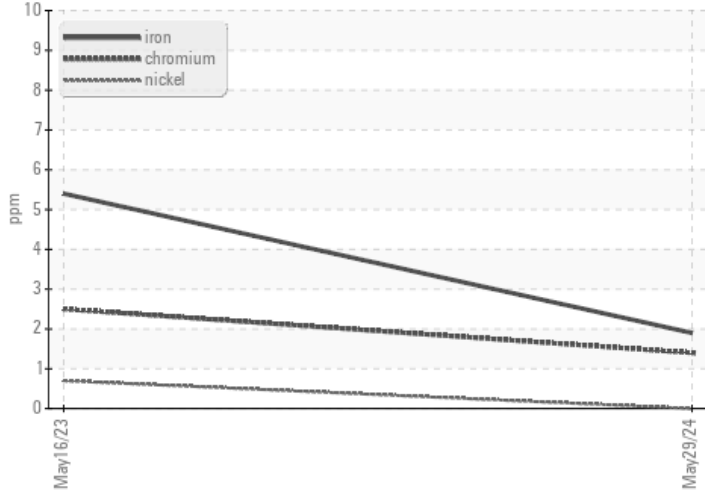


CONSTRUCTION EQUIPMENT

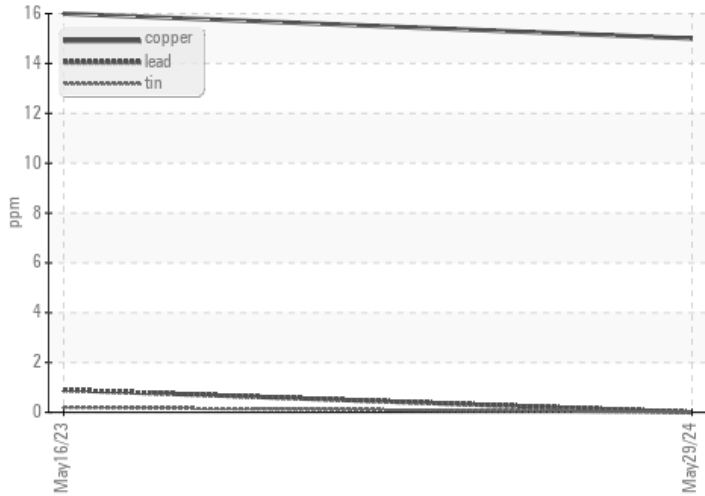


VOLVO GRAPHS

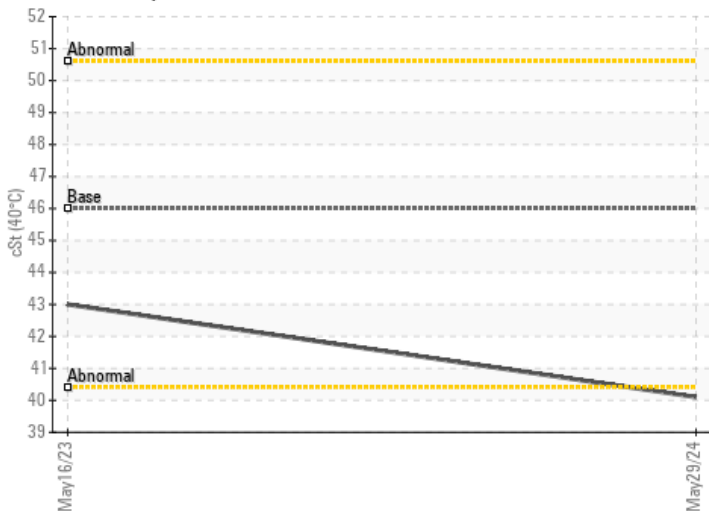
Ferrous Alloys



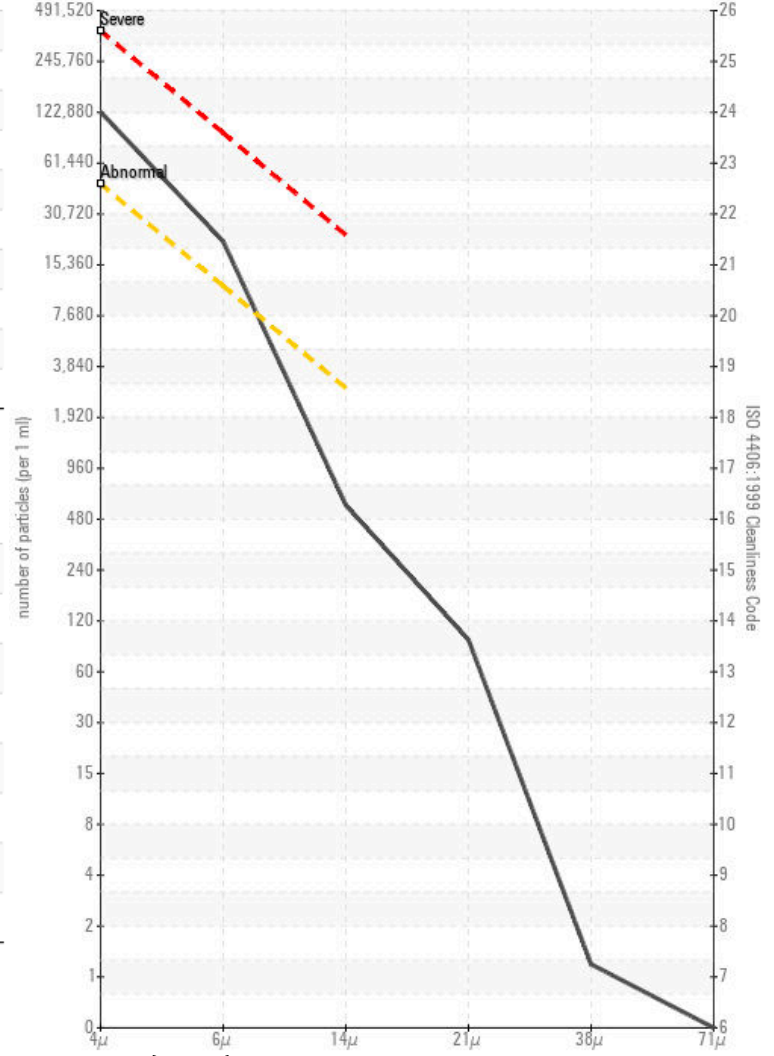
Non-ferrous Metals



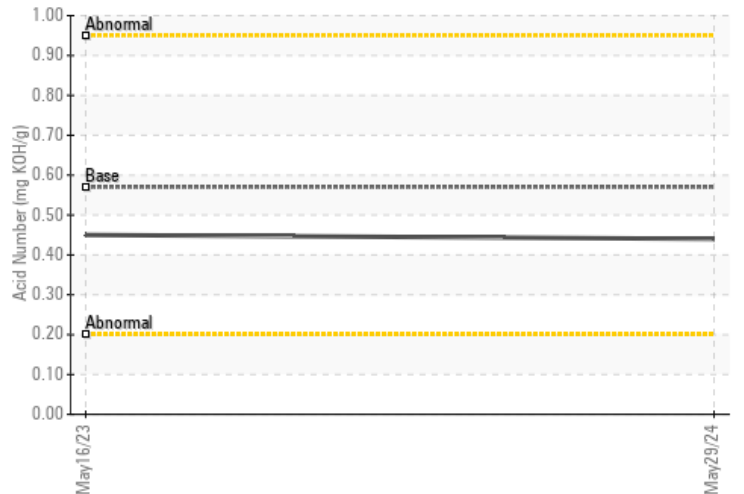
Viscosity @ 40°C



Particle Count



Acid Number





CONSTRUCTION EQUIPMENT

SWA56682-110 VOLVO EC750EL 314116 - LEFT SWING DRIVE



Sample No: VCP437763
Oil Type: GEAR OIL SAE 85W140
Job No: SWA56682-110



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SAMPLE INFORMATION

Sample Number	VCP437763	VCP408645	---	---
Sample Date	29 May 2024	20 May 2023	---	---
Machine Hours	3425	2900	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Chngd	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

OIL CONDITION

Visc @ 40°C	cSt	█ 281	█ 244	---	---
-------------	-----	-------	-------	-----	-----

CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	█ 95	█ 6	---	---
Sodium	ppm	█ 2	█ <1	---	---
Potassium	ppm	█ 0	█ 1	---	---

WEAR METALS

Iron	ppm	█ 172	█ 113	---	---
Copper	ppm	█ 28	█ 10	---	---
Lead	ppm	█ 0	█ <1	---	---
Tin	ppm	█ 0	█ <1	---	---
Aluminum	ppm	█ 1	█ 0	---	---
Chromium	ppm	█ 2	█ 2	---	---
Molybdenum	ppm	█ 2	█ 11	---	---
Nickel	ppm	█ 0	█ <1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	█ 3	█ 2	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	█ 105	█ 202	---	---
Magnesium	ppm	█ 24	█ 52	---	---
Zinc	ppm	█ 117	█ 141	---	---
Phosphorus	ppm	█ 993	█ 848	---	---
Barium	ppm	█ 11	█ 0	---	---
Boron	ppm	█ 42	█ 128	---	---

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.

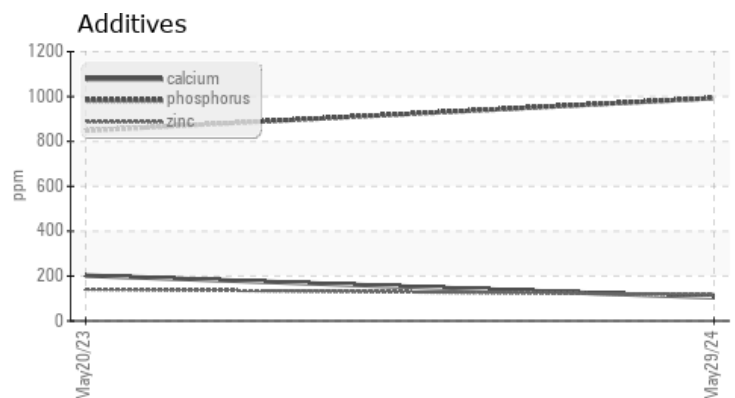
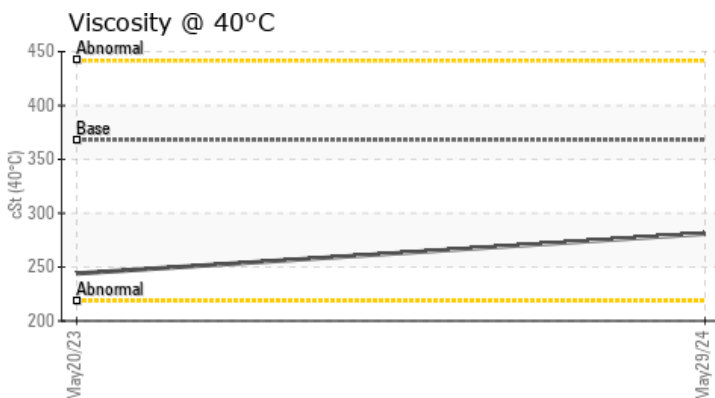
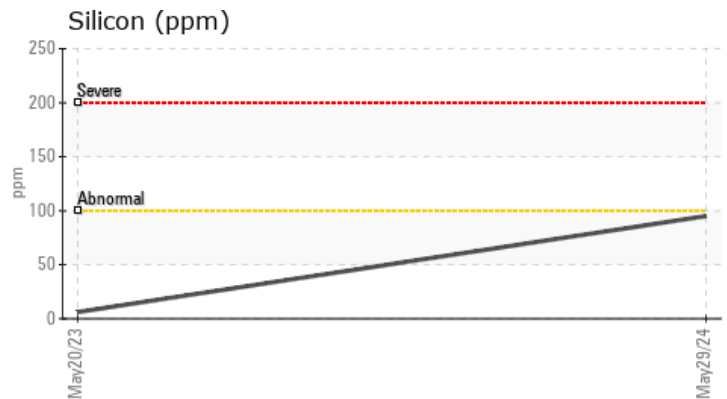
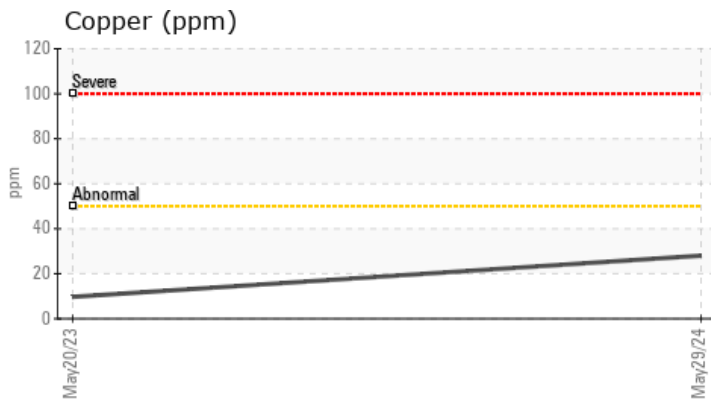
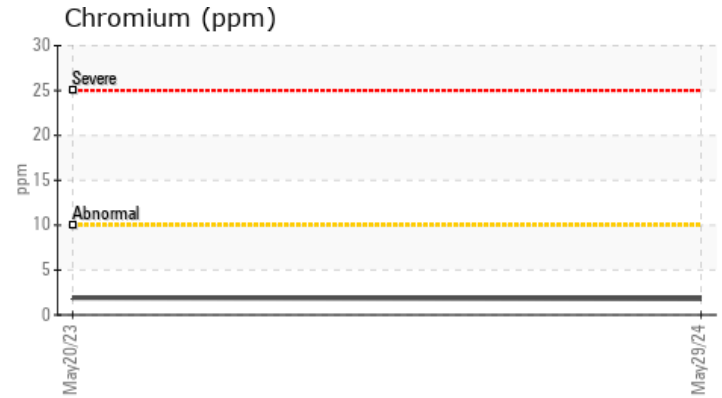
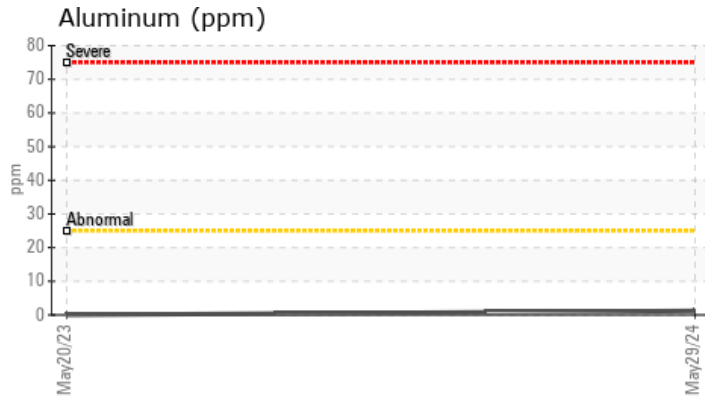
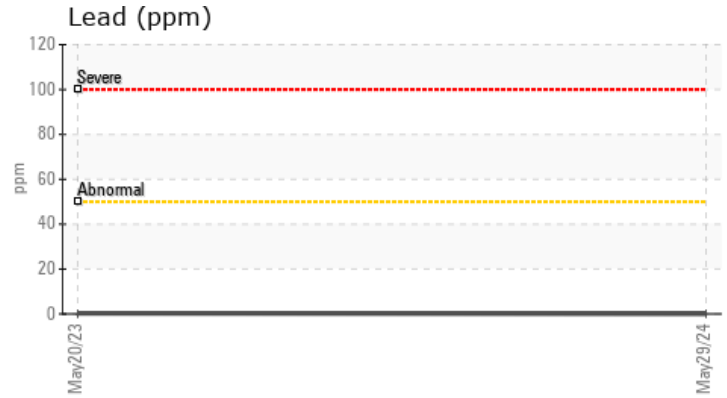
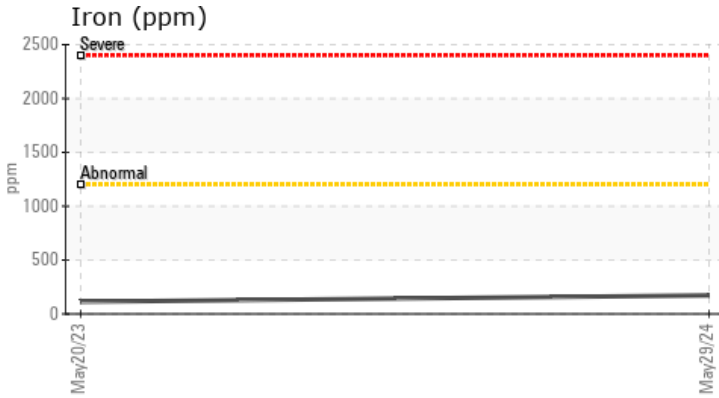
Depot: VOLVO0090
Unique No: 11060150
Signed: Wes Davis
Report Date: 04 Jun 2024



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

SWA56682-110 VOLVO EC750EL 314116 - RIGHT SWING DRIVE



Sample No: VCP437767
Oil Type: GEAR OIL SAE 85W140
Job No: SWA56682-110



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SAMPLE INFORMATION

Sample Number	VCP437767	VCP408637	---	---
Sample Date	29 May 2024	20 May 2023	---	---
Machine Hours	3425	2900	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Chngd	Changed	---	---
Sample Status	ABNORMAL	NORMAL	---	---



OIL CONDITION

Visc @ 40°C	cSt	█ 269	█ 258	---	---
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CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	▲ 115	█ 6	---	---
Sodium	ppm	█ 3	█ 0	---	---
Potassium	ppm	█ 0	█ 1	---	---



WEAR METALS

Iron	ppm	█ 191	█ 137	---	---
Copper	ppm	█ 26	█ 10	---	---
Lead	ppm	█ 0	█ 0	---	---
Tin	ppm	█ 0	█ 0	---	---
Aluminum	ppm	█ 2	█ 0	---	---
Chromium	ppm	█ 2	█ 2	---	---
Molybdenum	ppm	█ 4	█ 7	---	---
Nickel	ppm	█ 0	█ <1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	█ 3	█ 2	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	█ 227	█ 128	---	---
Magnesium	ppm	51	█ 32	---	---
Zinc	ppm	█ 181	█ 91	---	---
Phosphorus	ppm	█ 1010	█ 837	---	---
Barium	ppm	█ 8	█ 0	---	---
Boron	ppm	█ 81	█ 131	---	---

Diagnosis

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal. The condition of the oil is acceptable for the time in service.

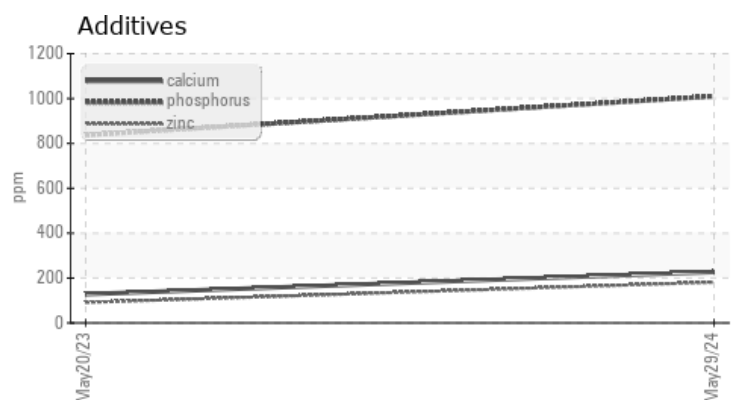
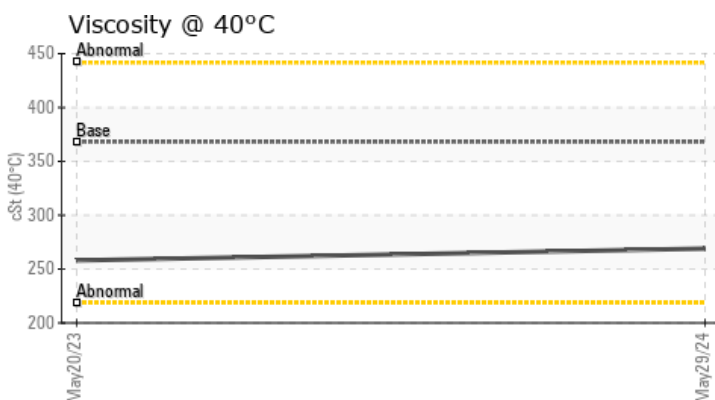
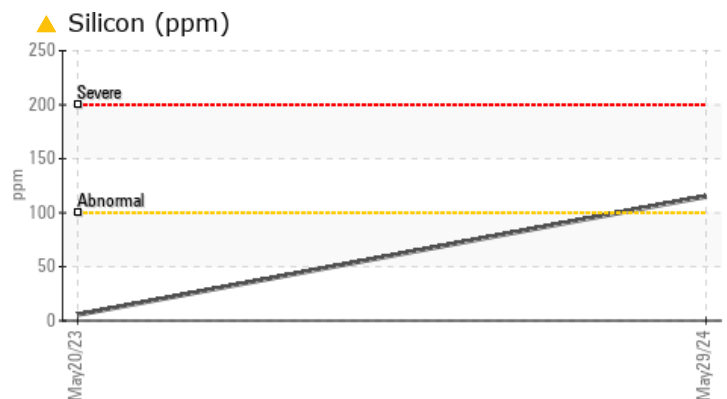
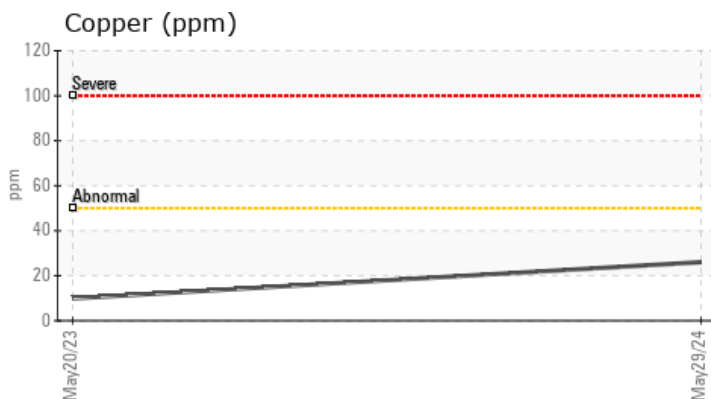
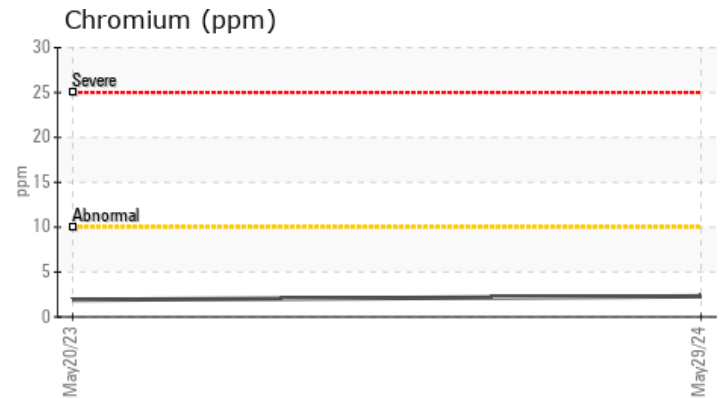
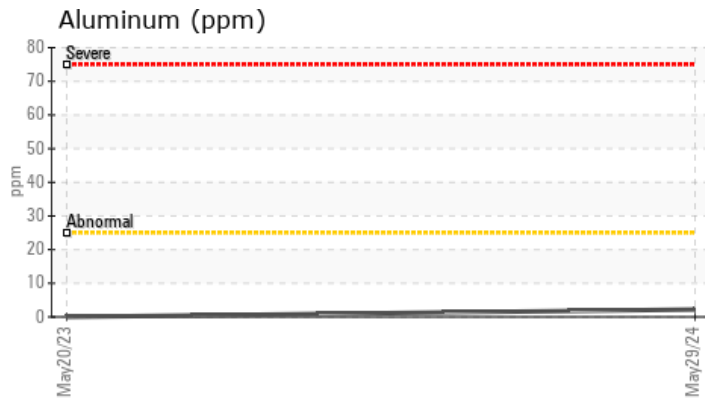
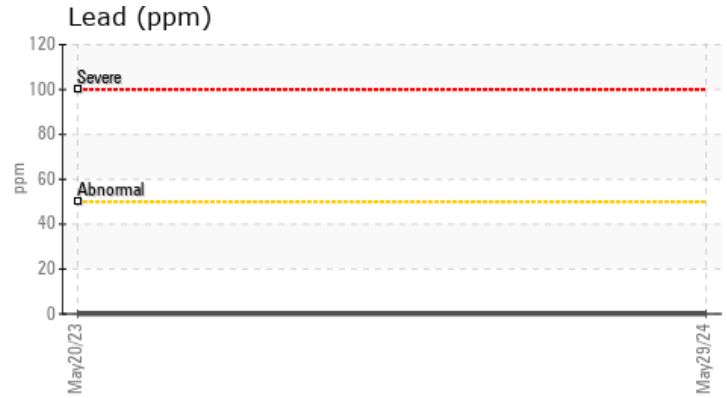
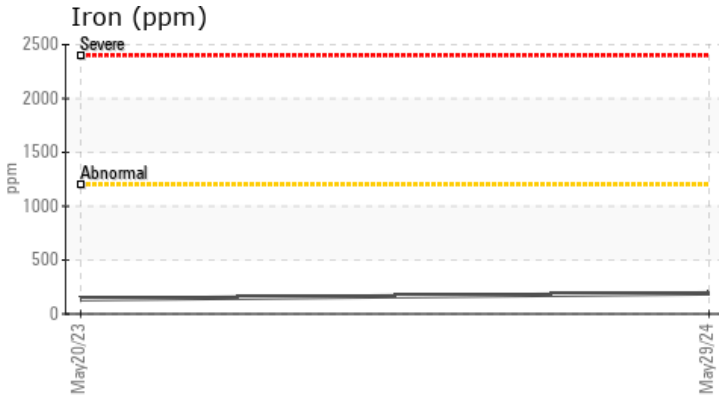
Depot: VOLVO0090
Unique No: 11060153
Signed: Don Baldrige
Report Date: 05 Jun 2024



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

SWA56682-110 VOLVO EC750EL 314116 - LEFT FINAL DRIVE



Sample No: VCP441073
Oil Type: GEAR OIL SAE 85W140
Job No: SWA56682-110



SAMPLE INFORMATION

Sample Number	VCP441073	VCP408704	---	---
Sample Date	29 May 2024	16 May 2023	---	---
Machine Hours	3425	2900	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Chngd	Changed	---	---
Sample Status	ABNORMAL	SEVERE	---	---

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OIL CONDITION

Visc @ 40°C	cSt	283	542	---	---
-------------	-----	------------	-----	-----	-----



CONTAMINATION

Water	%	NEG	0.840	---	---
Silicon	ppm	208	418	---	---
Sodium	ppm	<1	0	---	---
Potassium	ppm	<1	2	---	---

Diagnosis

We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	990	2806	---	---
Copper	ppm	2	6	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	22	32	---	---
Chromium	ppm	6	20	---	---
Molybdenum	ppm	6	9	---	---
Nickel	ppm	<1	5	---	---
Titanium	ppm	2	2	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	7	22	---	---
Vanadium	ppm	<1	<1	---	---



ADDITIVES

Calcium	ppm	181	225	---	---
Magnesium	ppm	37	30	---	---
Zinc	ppm	107	72	---	---
Phosphorus	ppm	1129	765	---	---
Barium	ppm	0	2	---	---
Boron	ppm	152	78	---	---

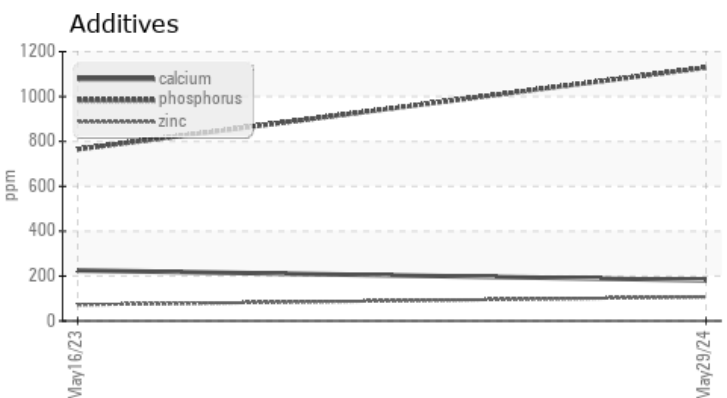
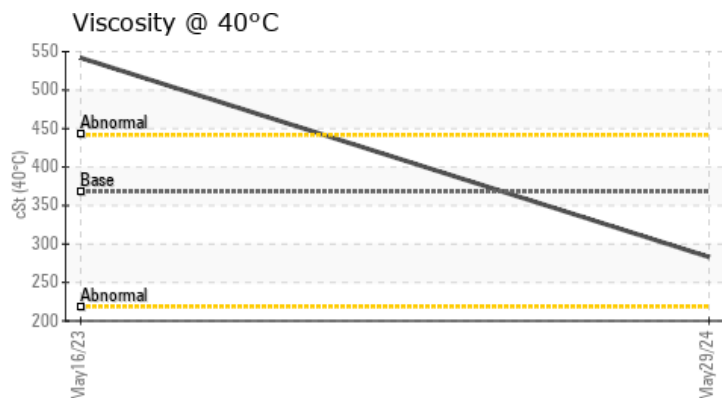
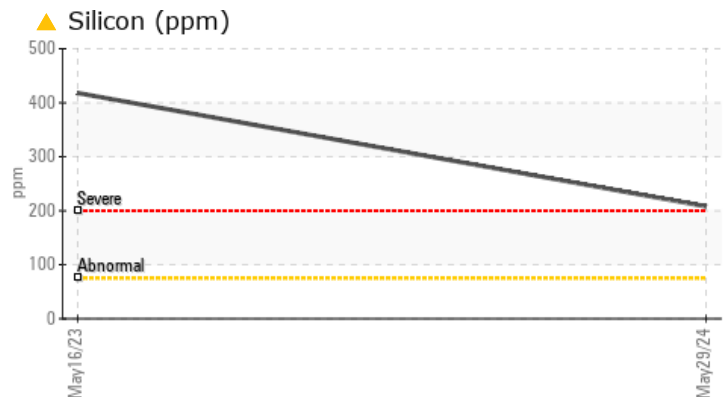
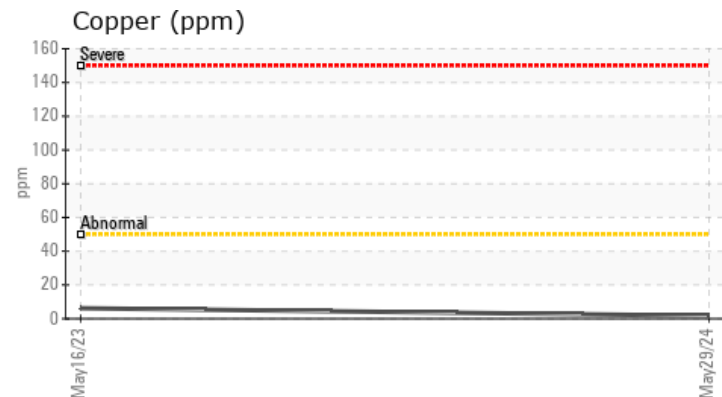
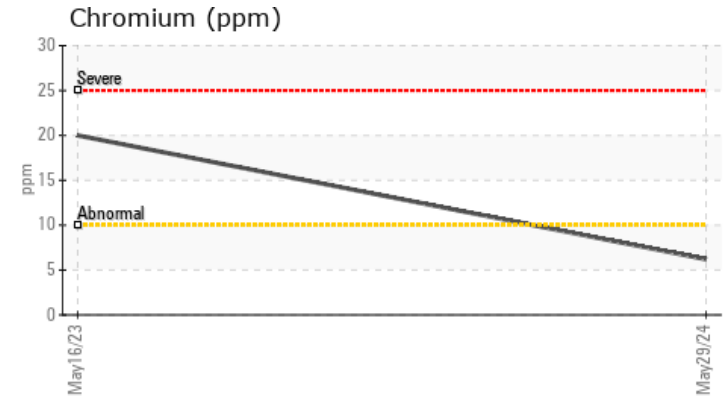
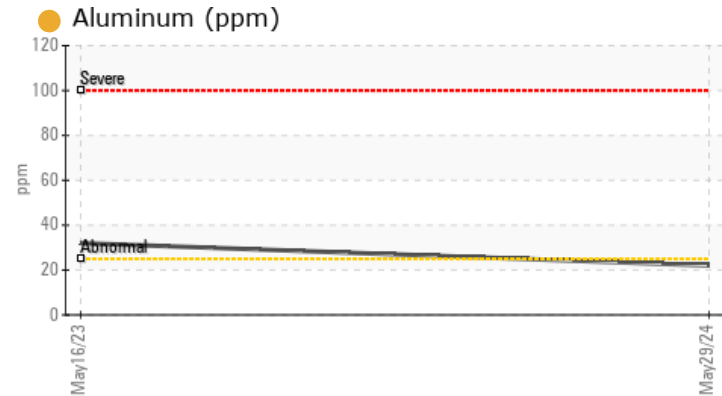
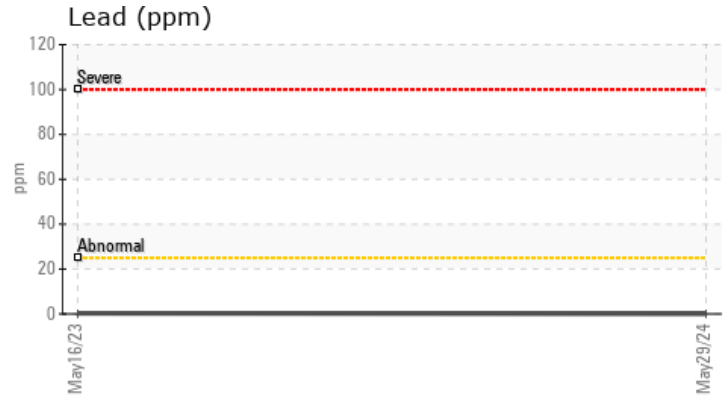
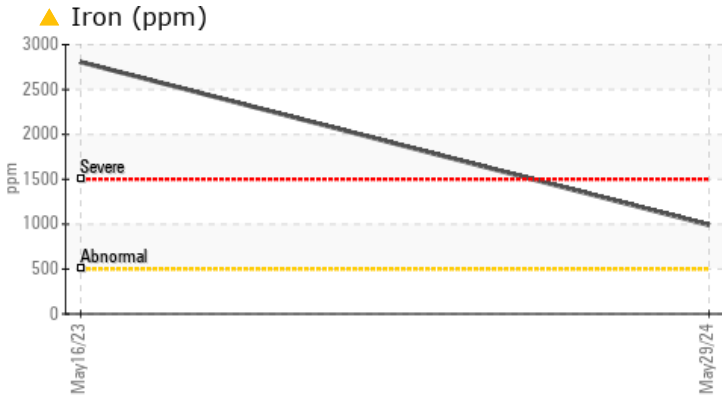
Depot: VOLVO0090
Unique No: 11060104
Signed: Don Baldrige
Report Date: 05 Jun 2024



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

SWA56682-110 VOLVO EC750EL 314116 - RIGHT FINAL DRIVE



Sample No: VCP431855
Oil Type: GEAR OIL SAE 85W140
Job No: SWA56682-110



SAMPLE INFORMATION

Sample Number	VCP431855	VCP408652	---	---
Sample Date	29 May 2024	20 May 2023	---	---
Machine Hours	3425	2900	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Chngd	N/A	---	---
Sample Status	ABNORMAL	SEVERE	---	---

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OIL CONDITION

Visc @ 40°C	cSt	267	339	---	---
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CONTAMINATION

Water	%	0.466	1.04	---	---
Silicon	ppm	192	275	---	---
Sodium	ppm	<1	<1	---	---
Potassium	ppm	1	1	---	---



WEAR METALS

Iron	ppm	537	1066	---	---
Copper	ppm	1	2	---	---
Lead	ppm	0	0	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	48	12	---	---
Chromium	ppm	3	7	---	---
Molybdenum	ppm	7	2	---	---
Nickel	ppm	0	3	---	---
Titanium	ppm	4	1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	4	8	---	---
Vanadium	ppm	<1	<1	---	---



ADDITIVES

Calcium	ppm	262	114	---	---
Magnesium	ppm	60	11	---	---
Zinc	ppm	198	45	---	---
Phosphorus	ppm	1066	971	---	---
Barium	ppm	0	0	---	---
Boron	ppm	123	134	---	---

Diagnosis

We advise that you check for the source of water entry. We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition. Gear wear is indicated. There is a moderate concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

Depot: VOLVO0090
Unique No: 11060101
Signed: Don Baldrige
Report Date: 04 Jun 2024



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