



CONSTRUCTION EQUIPMENT

ALTER SOUTH BELOIT SENNEBOGEN 840E 840.0.2350 - DIESEL ENGINE



Sample No: VCP439222
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: ALTER SOUTH BELOIT



SAMPLE INFORMATION

Sample Number	VCP439222	---	---	---
Sample Date	18 Apr 2024	---	---	---
Machine Hours	4440	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ATTENTION	---	---	---

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5000 INDUSTRIAL HWY
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Contact: MARK DEROSA
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F:

OIL CONDITION

Visc @ 100°C	cSt	● 12.0	---	---	---
Base Number (BN)	mg KOH/g	■ 8.7	---	---	---
Oxidation (PA)	%	67	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Light fuel dilution occurring. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	67	---	---	---
Sulfation (PA)	%	54	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 2.5	---	---	---
Silicon	ppm	■ 2	---	---	---
Sodium	ppm	■ <1	---	---	---
Potassium	ppm	■ <1	---	---	---

WEAR METALS

Iron	ppm	■ 5	---	---	---
Copper	ppm	■ <1	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ <1	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 58	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	■ 1106	---	---	---
Magnesium	ppm	■ 1003	---	---	---
Zinc	ppm	■ 1222	---	---	---
Phosphorus	ppm	■ 1020	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 0	---	---	---

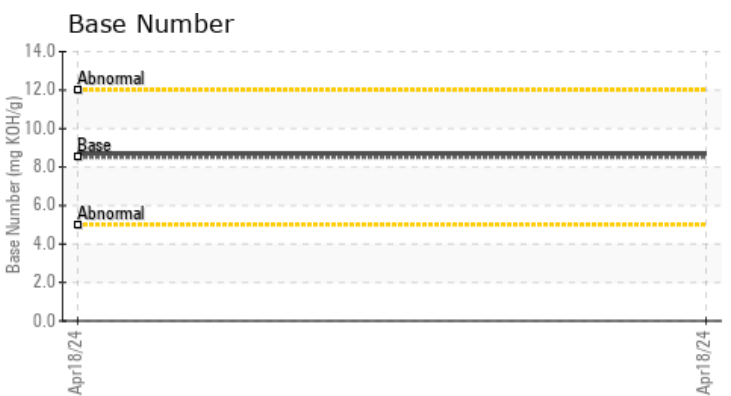
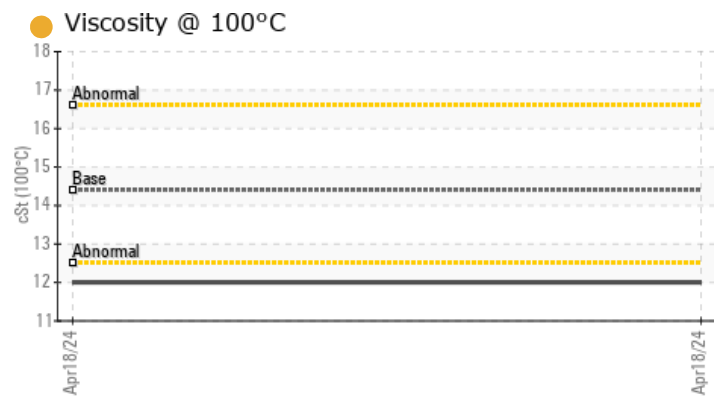
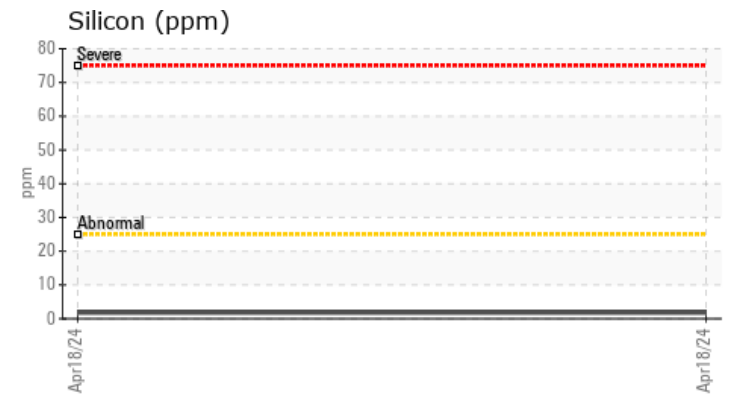
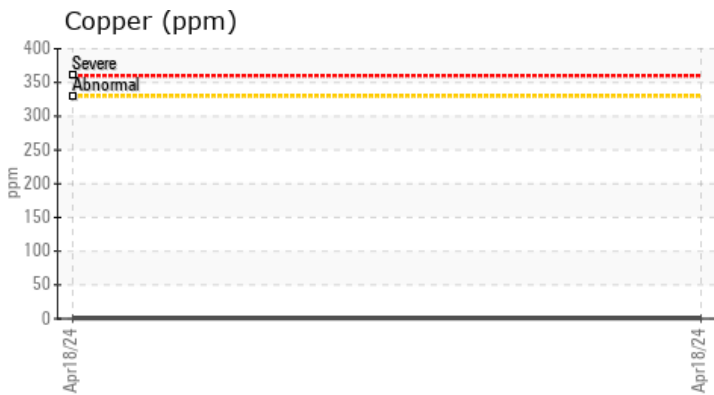
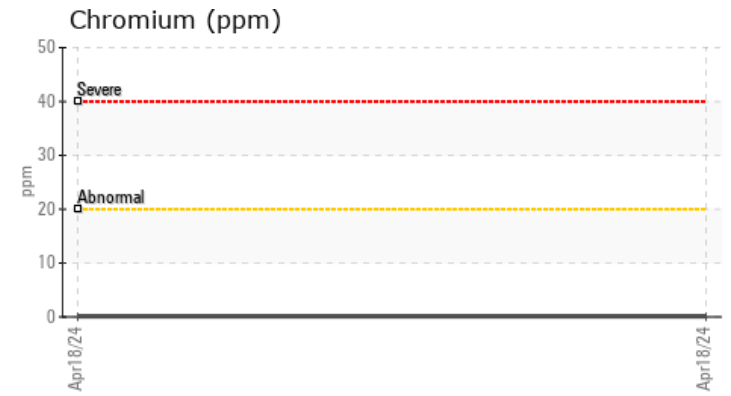
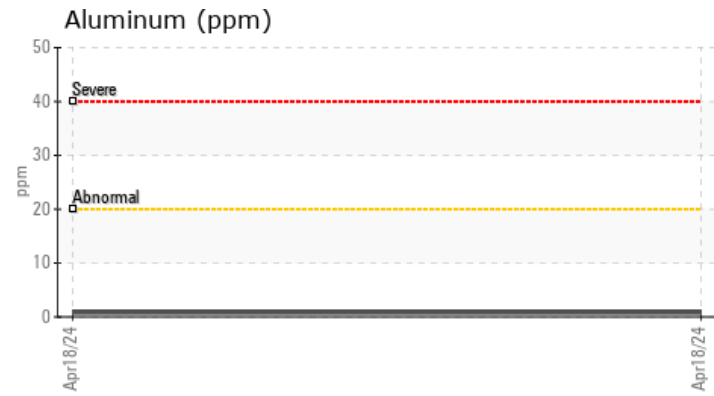
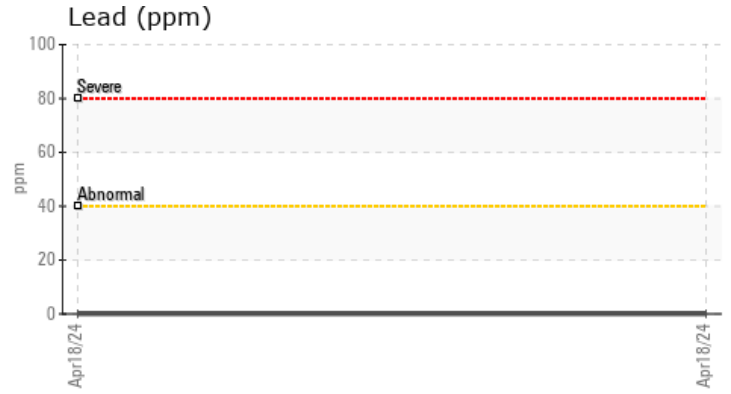
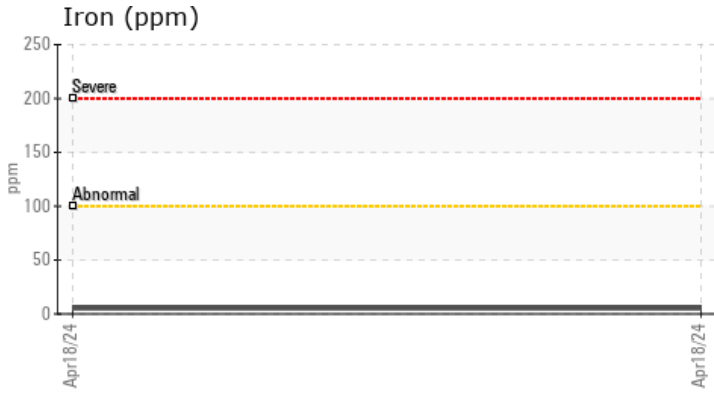
Depot: VOLVO8885
Unique No: 11003243
Signed: Jonathan Hester
Report Date: 01 May 2024



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

SPM702175 ALTER SB SENNEBOGEN 840E 840.0.2350 - HYDRAULIC SYSTEM



Sample No: VCP414252
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SPM702175 ALTER SB



SAMPLE INFORMATION

Sample Number	VCP414252	---	---	---
Sample Date	18 Apr 2024	---	---	---
Machine Hours	4440	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	■ 52.0	---	---	---
Acid Number (AN)	mg KOH/g	■ 0.56	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		▲ 10109	---	---	---
Particles >6µm		● 1347	---	---	---
Particles >14µm		■ 97	---	---	---
ISO 4406:1999 (c)		21/18/14	---	---	---
Silicon	ppm	■ <1	---	---	---
Sodium	ppm	■ <1	---	---	---
Potassium	ppm	■ 0	---	---	---

Diagnosis
No corrective action is recommended at this time. 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	■ 0	---	---	---
Copper	ppm	■ <1	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 0	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 2	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	■ 168	---	---	---
Magnesium	ppm	■ 21	---	---	---
Zinc	ppm	■ 455	---	---	---
Phosphorus	ppm	■ 367	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 3	---	---	---

Depot: VOLVO8885
Unique No: 11003482
Signed: Don Baldrige
Report Date: 01 May 2024

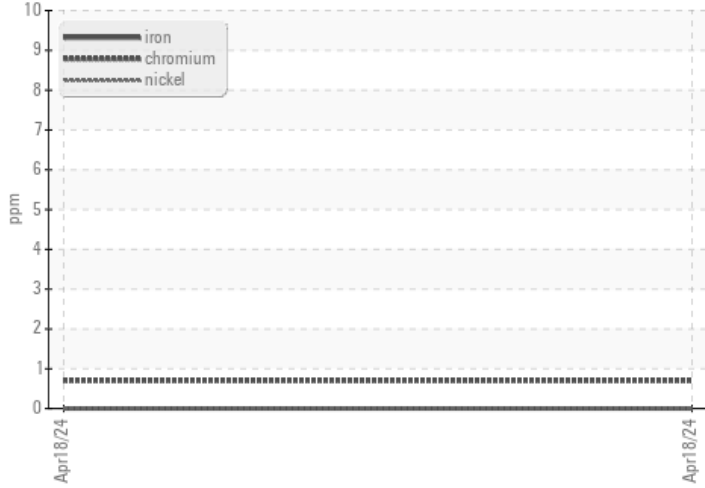


CONSTRUCTION EQUIPMENT

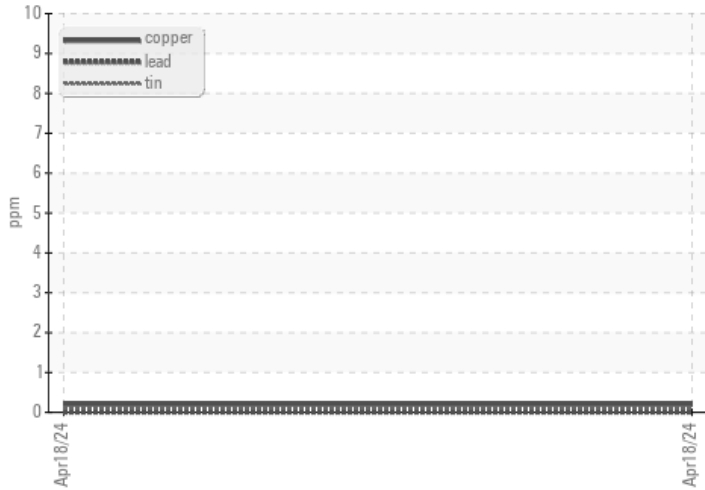


GRAPHS

Ferrous Alloys



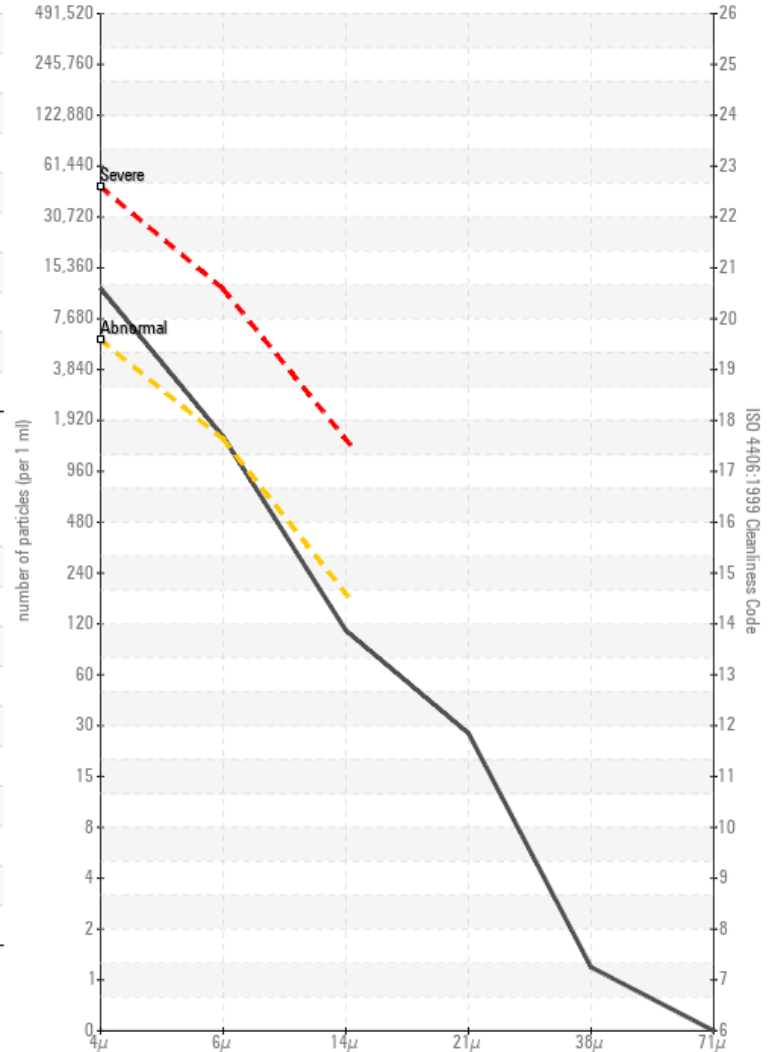
Non-ferrous Metals



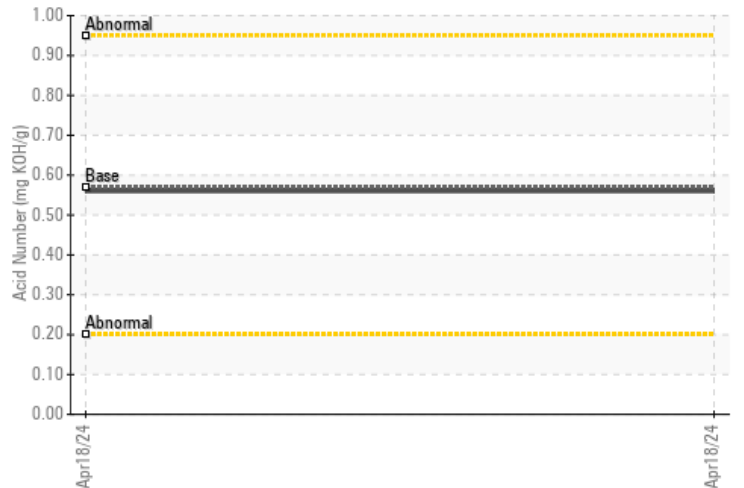
Viscosity @ 40°C



Particle Count



Acid Number





CONSTRUCTION EQUIPMENT

SPM702175 SENNEBOGEN 840E 840.0.2350 - LEFT SWING DRIVE



Sample No: VCP414253
Oil Type: GEAR OIL ISO 220
Job No: SPM702175



SAMPLE INFORMATION

Sample Number	VCP414253	---	---	---
Sample Date	18 Apr 2024	---	---	---
Machine Hours	4440	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	MARGINAL	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	█ 224	---	---	---
-------------	-----	-------	-----	-----	-----



CONTAMINATION

Water	%	▲ 0.161	---	---	---
Silicon	ppm	█ 27	---	---	---
Sodium	ppm	█ 1	---	---	---
Potassium	ppm	█ 1	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a trace of moisture present in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	█ 109	---	---	---
Copper	ppm	█ 50	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 4	---	---	---
Aluminum	ppm	█ 1	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 43	---	---	---
Magnesium	ppm	█ 3	---	---	---
Zinc	ppm	█ 28	---	---	---
Phosphorus	ppm	█ 393	---	---	---
Barium	ppm	█ 1	---	---	---
Boron	ppm	█ 2	---	---	---

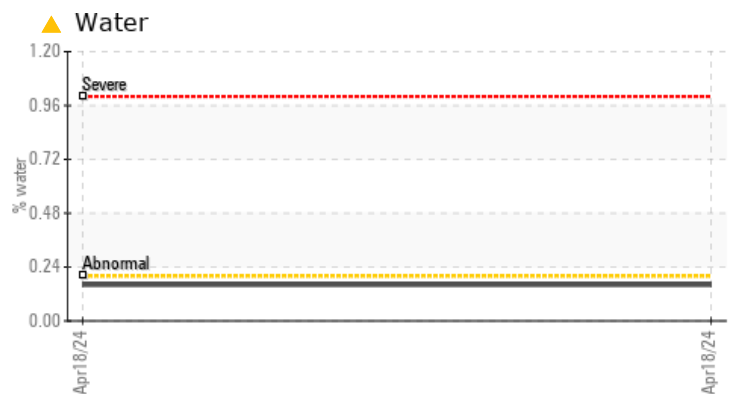
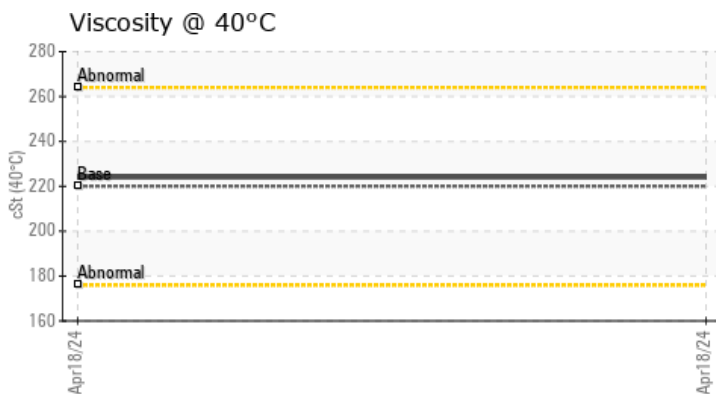
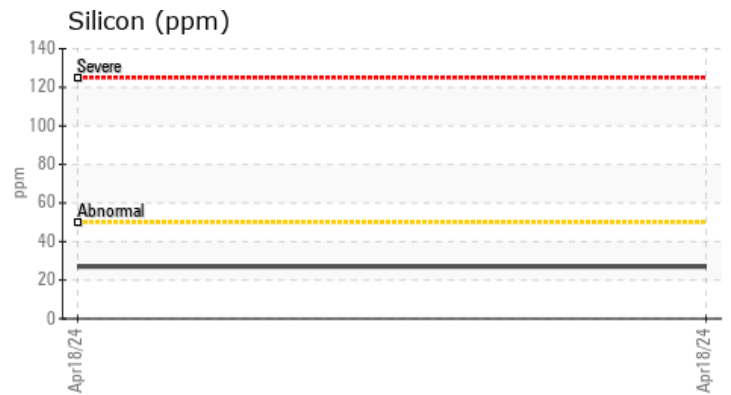
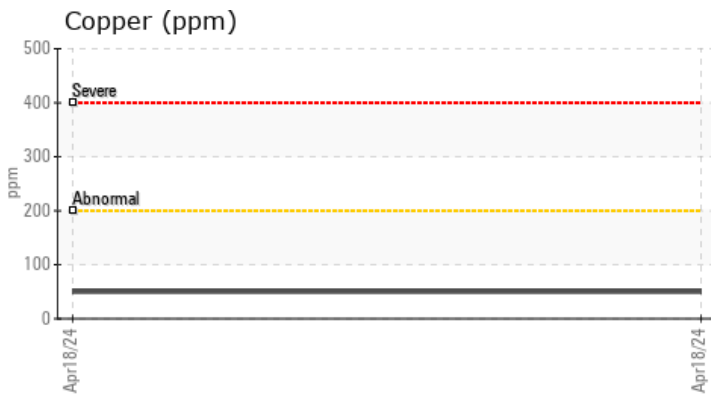
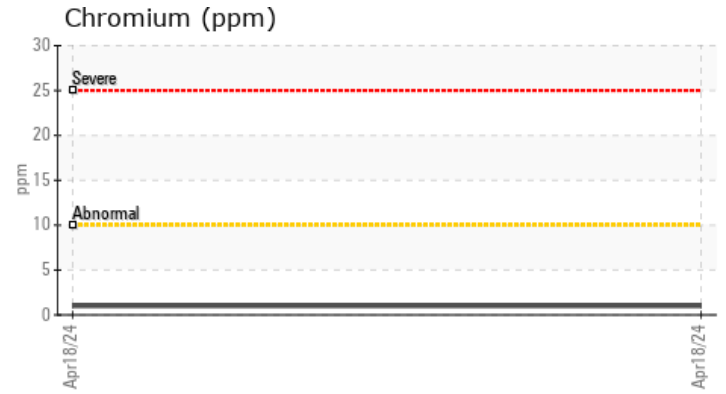
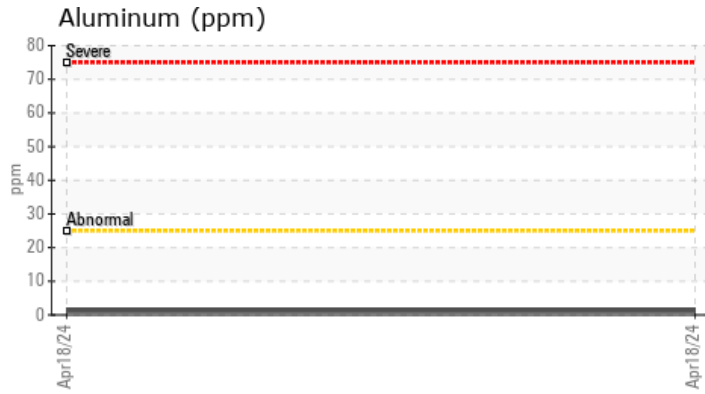
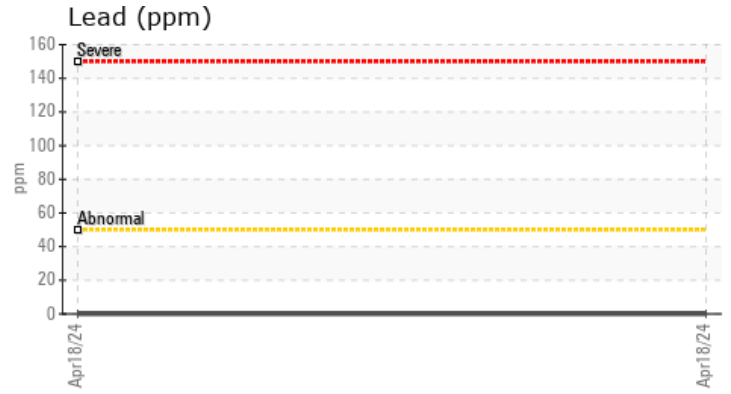
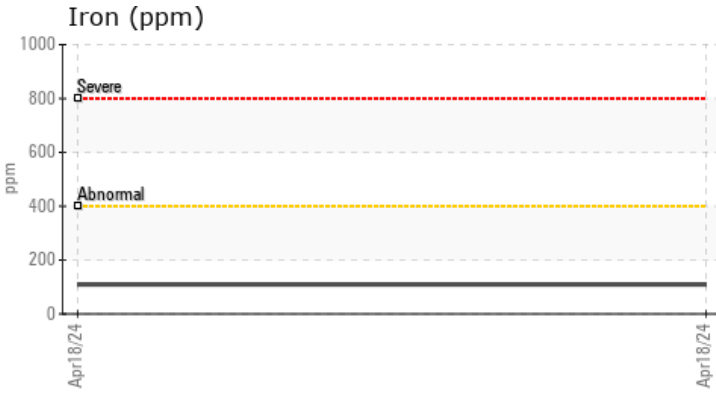
Depot: VOLVO8885
Unique No: 11004030
Signed: Jonathan Hester
Report Date: 01 May 2024



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

SPM702175 ALTER S SENNEBOGEN 840E 840.0.2350 - RIGHT SWING DRIVE



Sample No: VCP414256
Oil Type: GEAR OIL ISO 220
Job No: SPM702175 ALTER S



SAMPLE INFORMATION

Sample Number	VCP414256	---	---	---
Sample Date	18 Apr 2024	---	---	---
Machine Hours	4440	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---

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F:



OIL CONDITION

Visc @ 40°C	cSt	█ 219	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 22	---	---	---
Sodium	ppm	█ 1	---	---	---
Potassium	ppm	█ 2	---	---	---

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	█ 94	---	---	---
Copper	ppm	█ 33	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 4	---	---	---
Aluminum	ppm	█ 1	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 39	---	---	---
Magnesium	ppm	█ 2	---	---	---
Zinc	ppm	█ 27	---	---	---
Phosphorus	ppm	█ 461	---	---	---
Barium	ppm	█ 1	---	---	---
Boron	ppm	█ 1	---	---	---

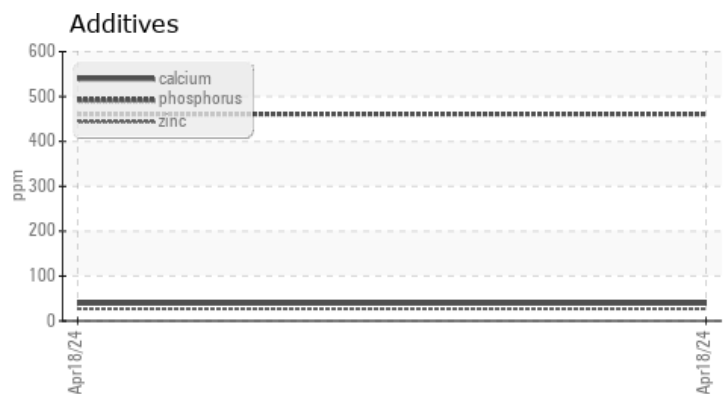
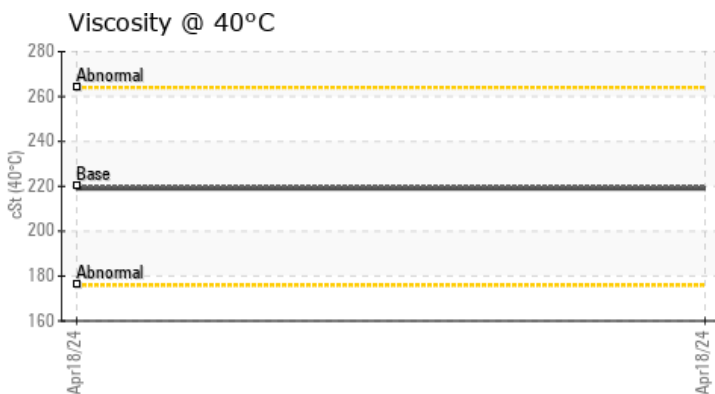
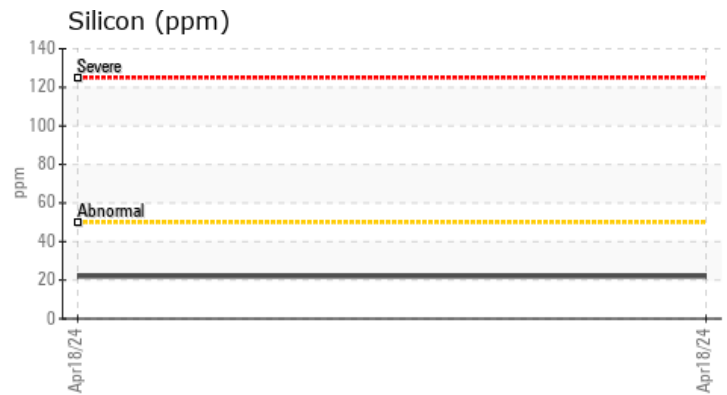
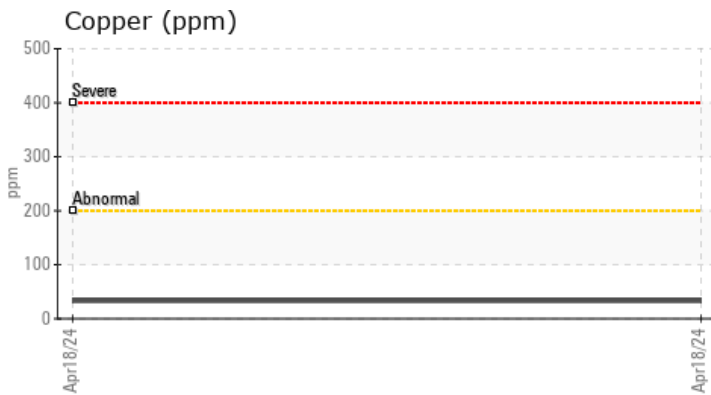
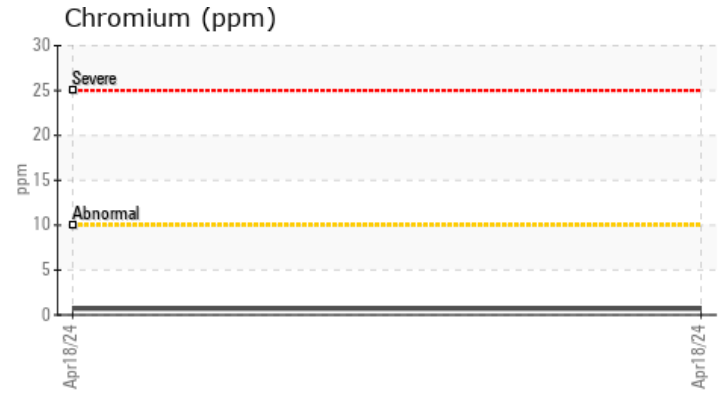
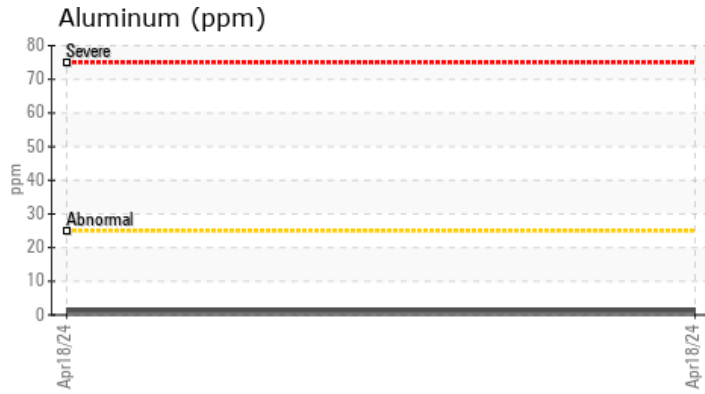
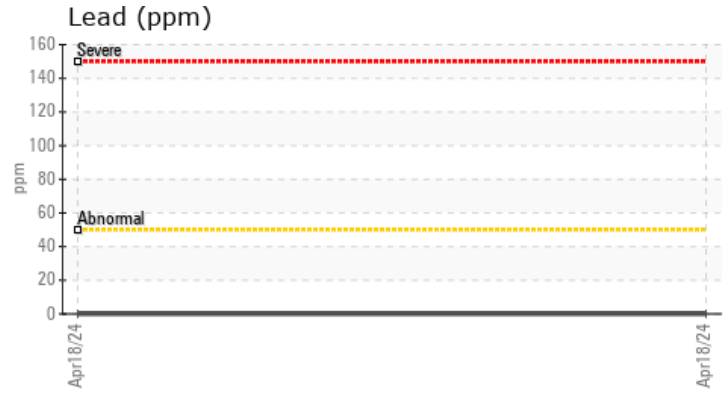
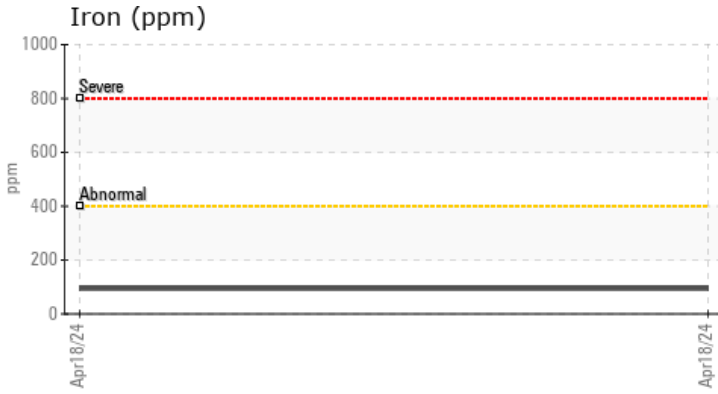
Depot: VOLVO8885
Unique No: 11004029
Signed: Jonathan Hester
Report Date: 01 May 2024



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

SPM702175 ALTER S SENNEBOGEN 840E 840.0.2350 - FRONT LEFT FINAL DRIVE



Sample No: VCP439225
Oil Type: GEAR OIL SAE 80W90
Job No: SPM702175 ALTER S



SAMPLE INFORMATION

Sample Number	VCP439225	---	---	---
Sample Date	18 Apr 2024	---	---	---
Machine Hours	4440	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---

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F:



OIL CONDITION

Visc @ 40°C	cSt	█ 147	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 2	---	---	---
Sodium	ppm	█ 2	---	---	---
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	█ 5	---	---	---
Copper	ppm	█ <1	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 1	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 16	---	---	---
Magnesium	ppm	█ 3	---	---	---
Zinc	ppm	█ 11	---	---	---
Phosphorus	ppm	█ 409	---	---	---
Barium	ppm	█ 2	---	---	---
Boron	ppm	0	---	---	---

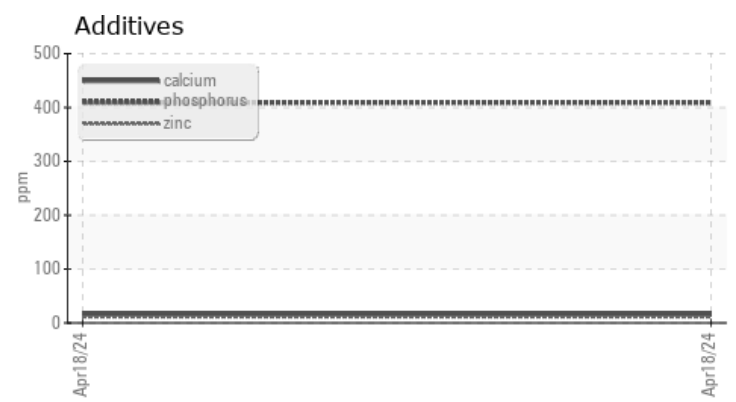
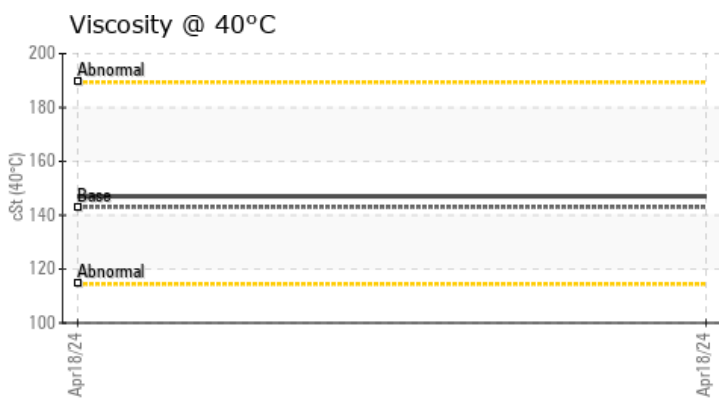
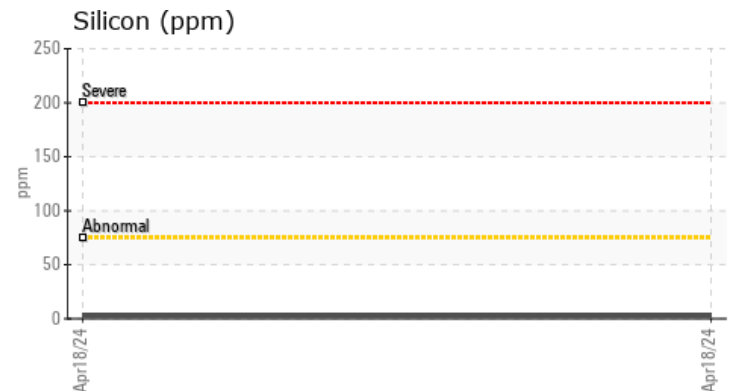
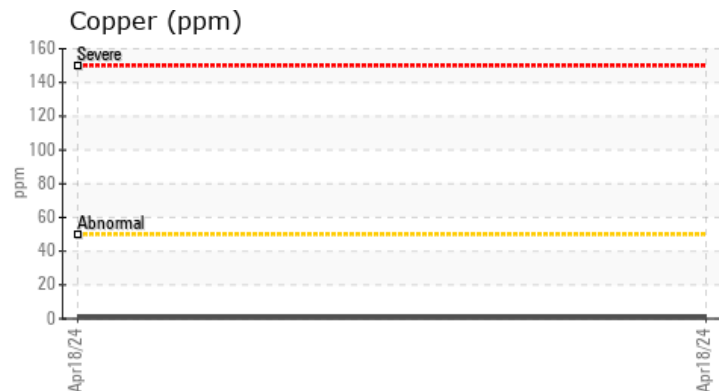
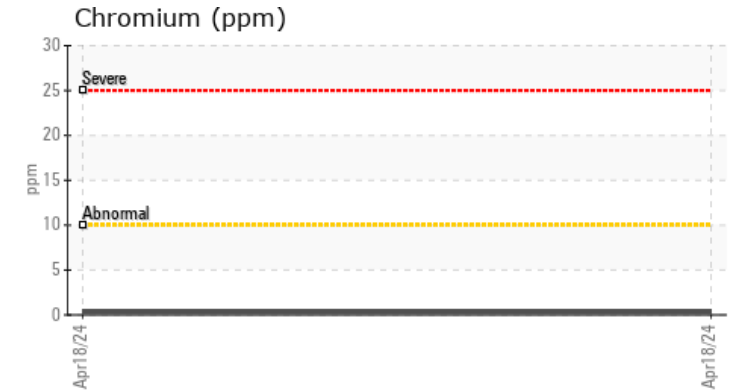
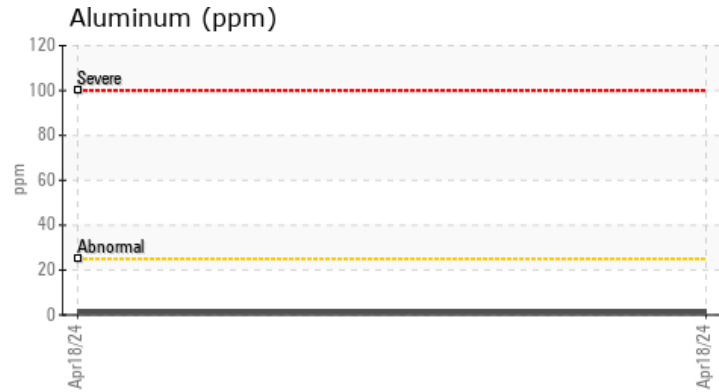
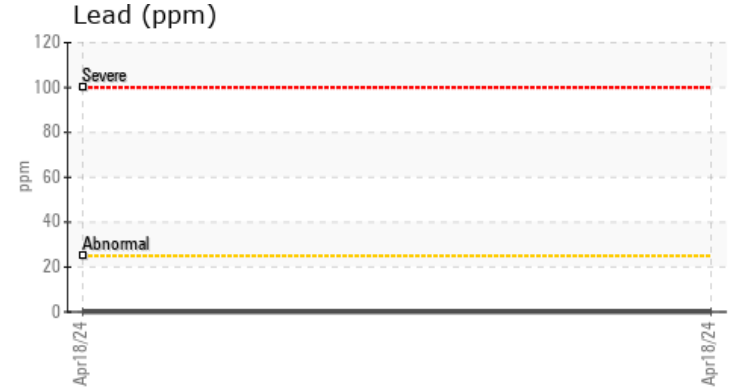
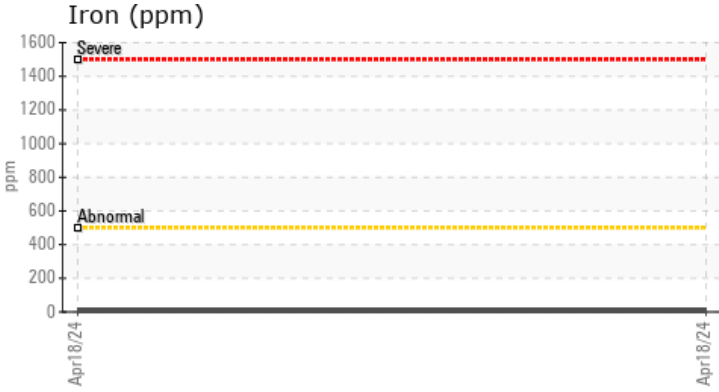
Depot: VOLVO8885
Unique No: 11004019
Signed: Wes Davis
Report Date: 30 Apr 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS





CONSTRUCTION EQUIPMENT

SPM702175 ALTER S SENNEBOGEN 840E 840.0.2350 - FRONT AXLE



Sample No: VCP414249
Oil Type: GEAR OIL SAE 80W90
Job No: SPM702175 ALTER S



SAMPLE INFORMATION

Sample Number	VCP414249	---	---	---
Sample Date	18 Apr 2024	---	---	---
Machine Hours	4440	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	█ 146	---	---	---
-------------	-----	-------	-----	-----	-----



CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ 2	---	---	---
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	█ 3	---	---	---
Copper	ppm	█ 1	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 1	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 10	---	---	---
Magnesium	ppm	█ 2	---	---	---
Zinc	ppm	█ 8	---	---	---
Phosphorus	ppm	█ 431	---	---	---
Barium	ppm	█ 1	---	---	---
Boron	ppm	█ <1	---	---	---

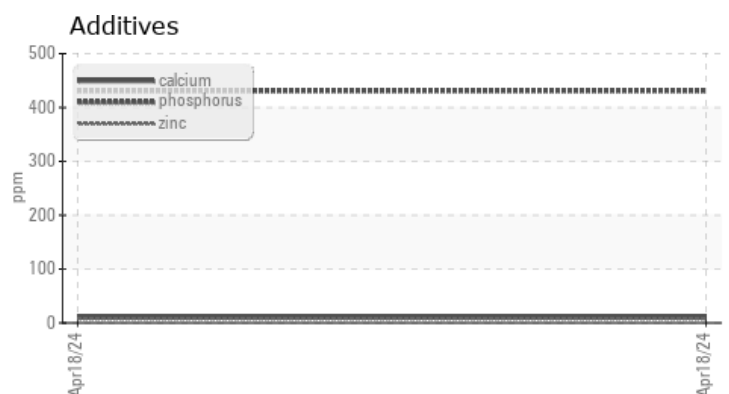
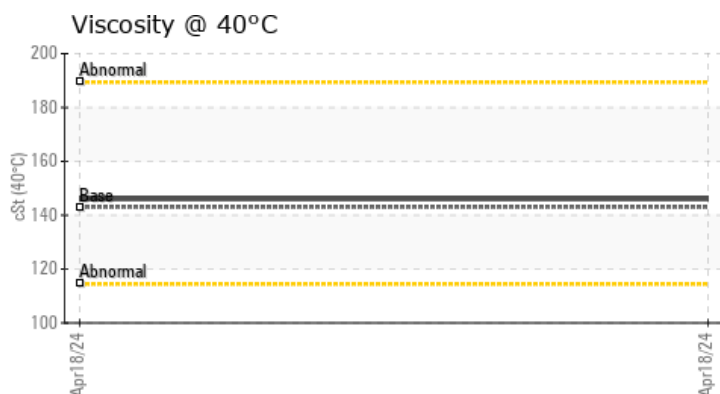
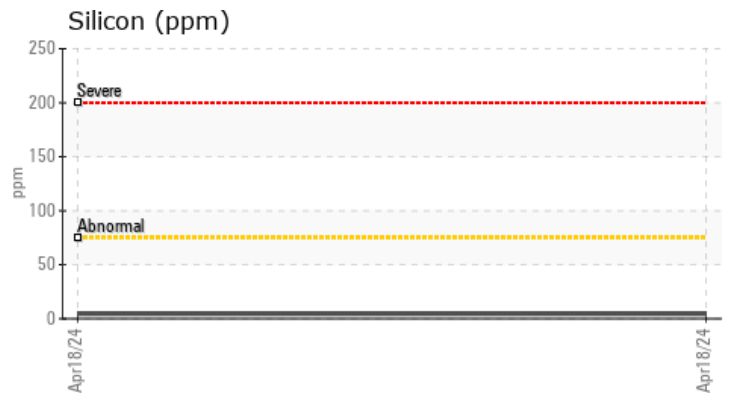
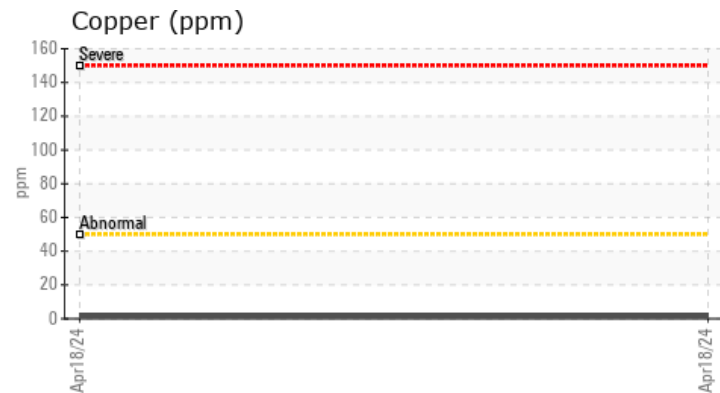
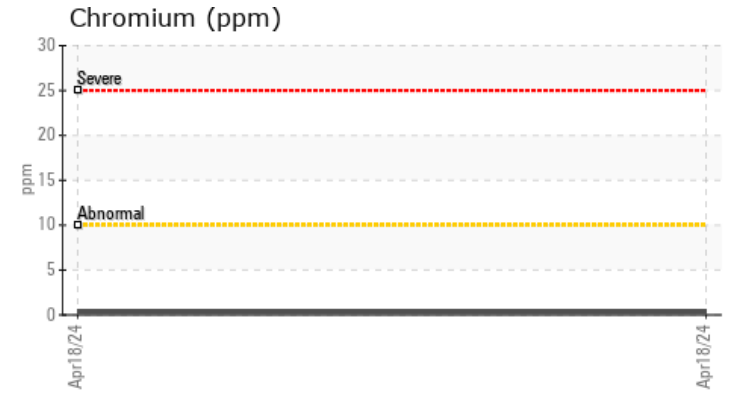
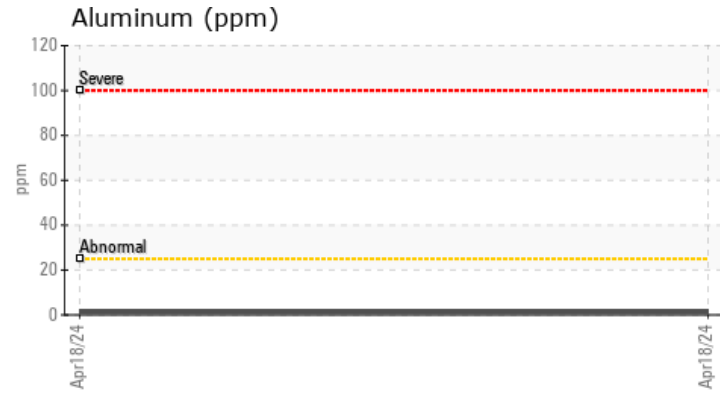
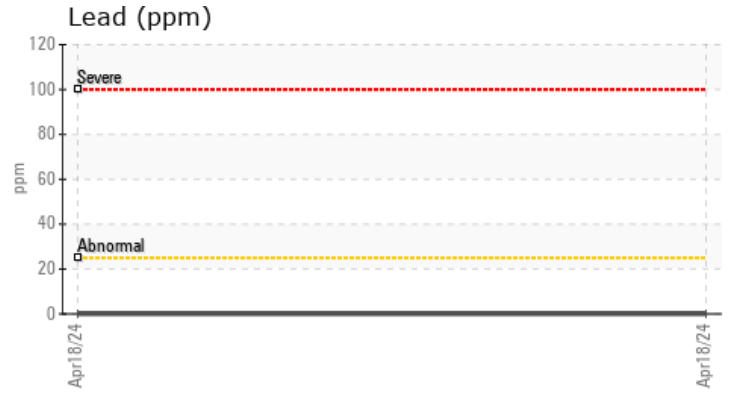
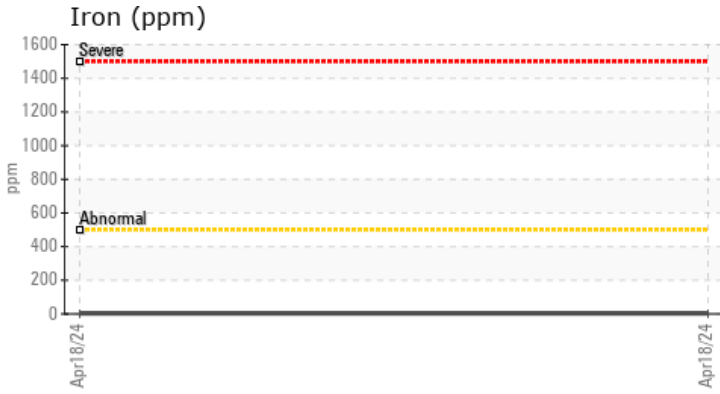
Depot: VOLVO8885
Unique No: 11004031
Signed: Wes Davis
Report Date: 30 Apr 2024



CONSTRUCTION EQUIPMENT



GRAPHS



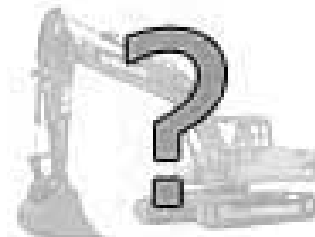


CONSTRUCTION EQUIPMENT

SPM702175 ALTER S SENNEBOGEN 840E 840.0.2350 - FRONT RIGHT FINAL DRIVE



Sample No: VCP439351
Oil Type: GEAR OIL SAE 80W90
Job No: SPM702175 ALTER S



SAMPLE INFORMATION

Sample Number	VCP439351	---	---	---
Sample Date	18 Apr 2024	---	---	---
Machine Hours	4440	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---

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US 46406
Contact: MARK DEROSA
mark.derosa@altg.com
T: (248)356-5200
F:



OIL CONDITION

Visc @ 40°C	cSt	█ 143	---	---	---
-------------	-----	-------	-----	-----	-----



CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 2	---	---	---
Sodium	ppm	█ 2	---	---	---
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	█ 5	---	---	---
Copper	ppm	█ <1	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 1	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 16	---	---	---
Magnesium	ppm	█ 2	---	---	---
Zinc	ppm	█ 10	---	---	---
Phosphorus	ppm	█ 438	---	---	---
Barium	ppm	█ 1	---	---	---
Boron	ppm	0	---	---	---

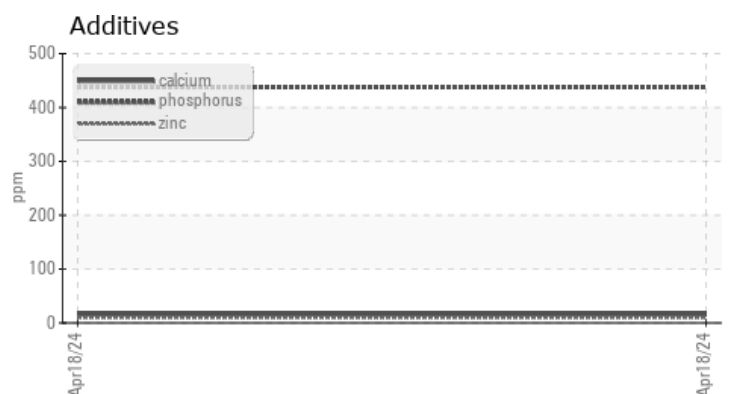
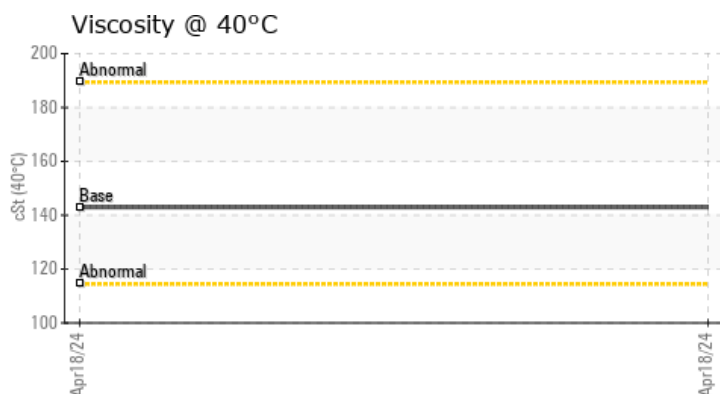
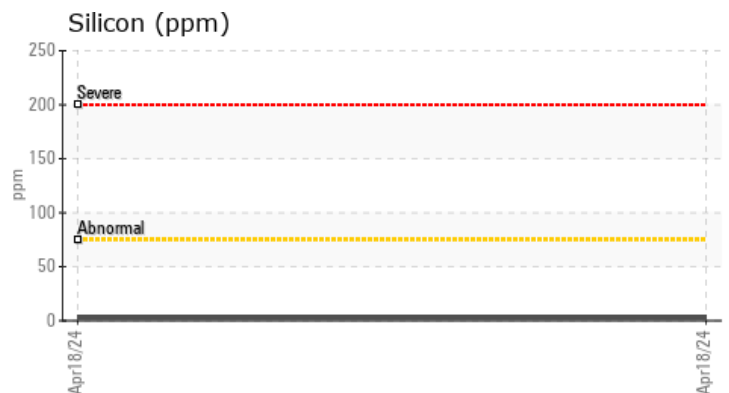
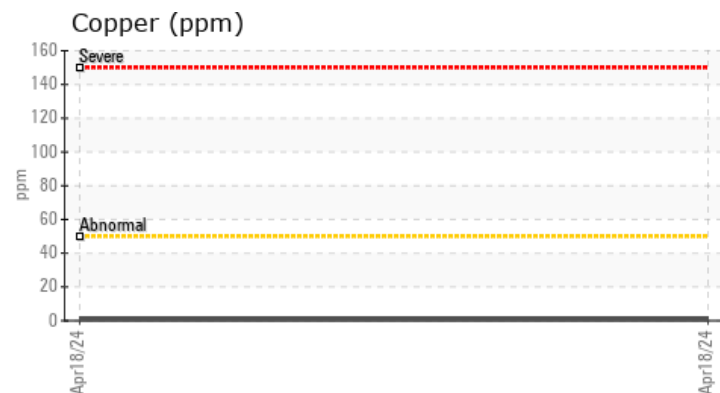
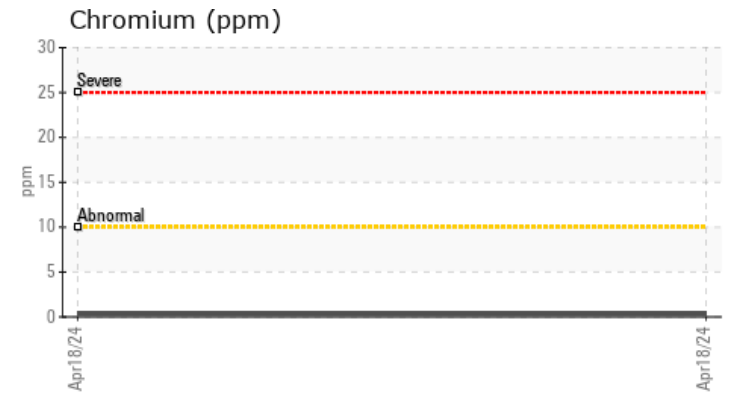
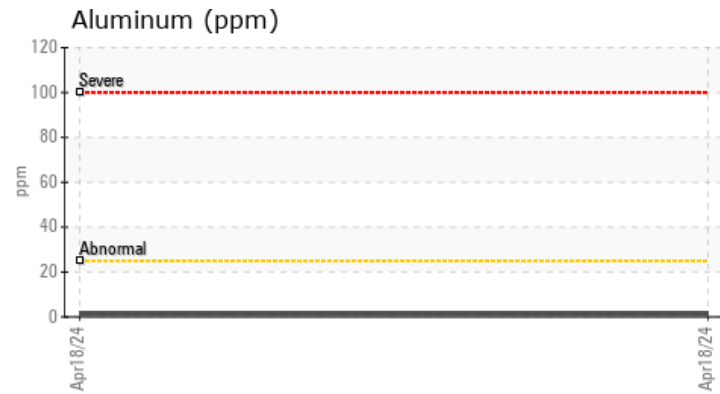
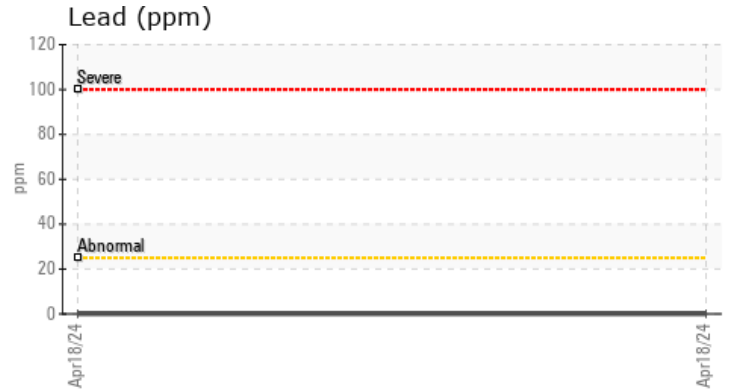
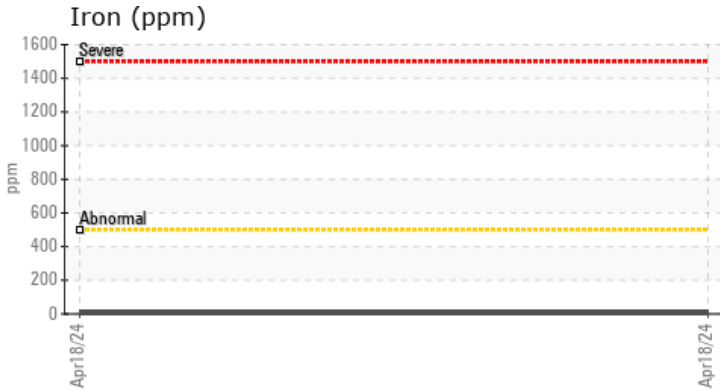
Depot: VOLVO8885
Unique No: 11004026
Signed: Wes Davis
Report Date: 30 Apr 2024



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

SPM702175 ALTER S SENNEBOGEN 840E 840.0.2350 - REAR LEFT FINAL DRIVE



Sample No: VCP439349
Oil Type: GEAR OIL SAE 80W90
Job No: SPM702175 ALTER S



SAMPLE INFORMATION

Sample Number	VCP439349	---	---	---
Sample Date	18 Apr 2024	---	---	---
Machine Hours	4440	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---

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Contact: MARK DEROSA
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T: (248)356-5200
F:



OIL CONDITION

Visc @ 40°C	cSt	█ 143	---	---	---
-------------	-----	-------	-----	-----	-----



CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 3	---	---	---
Sodium	ppm	█ 2	---	---	---
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	█ 5	---	---	---
Copper	ppm	█ <1	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 1	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 17	---	---	---
Magnesium	ppm	█ 2	---	---	---
Zinc	ppm	█ 11	---	---	---
Phosphorus	ppm	█ 447	---	---	---
Barium	ppm	█ 1	---	---	---
Boron	ppm	█ 1	---	---	---

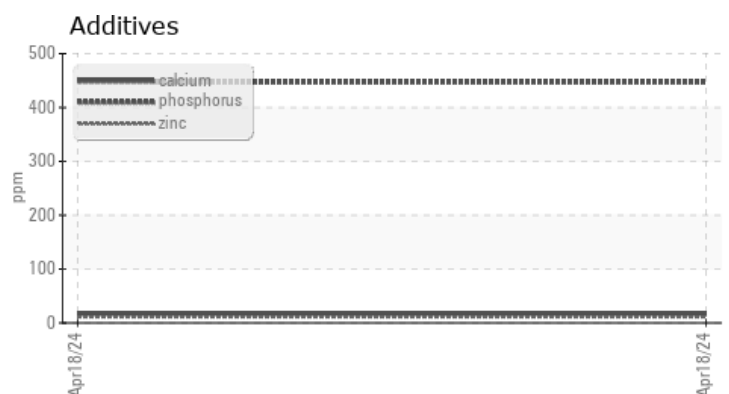
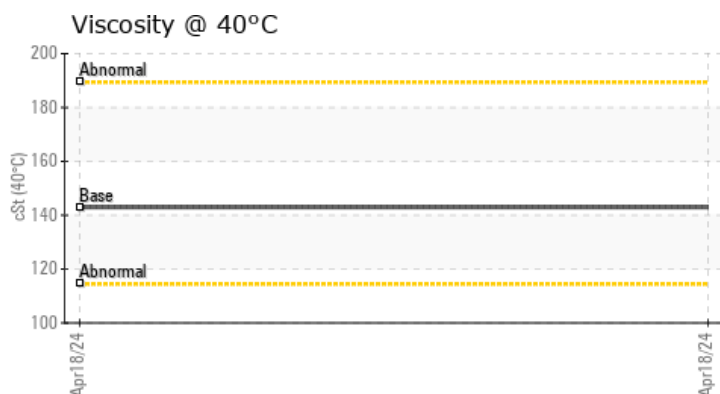
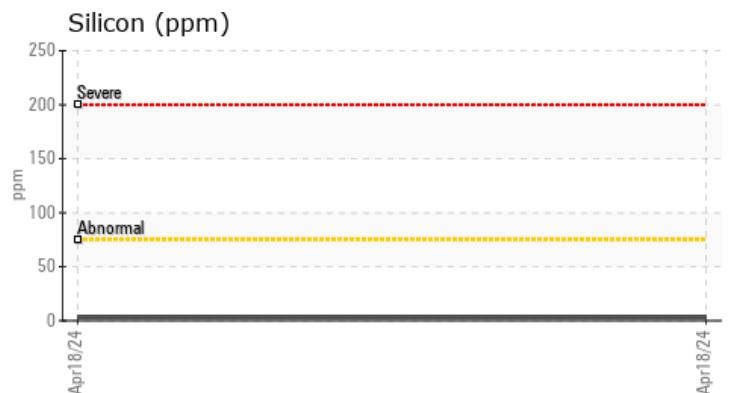
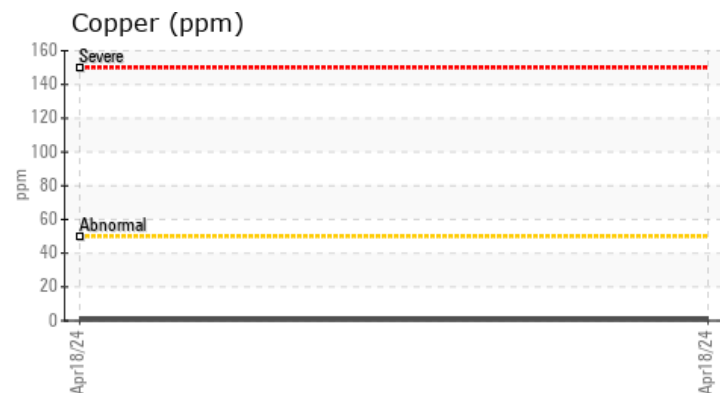
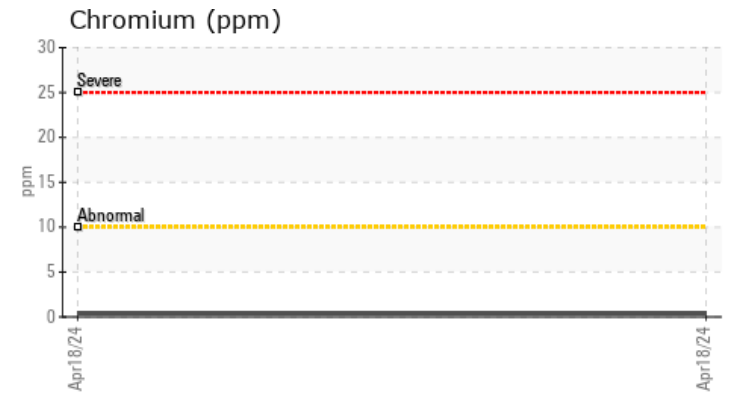
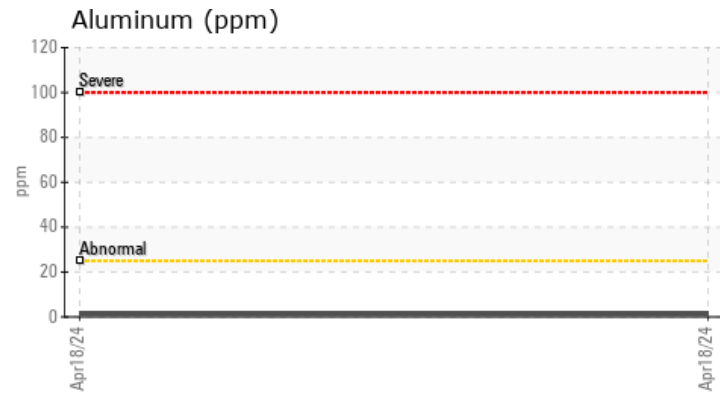
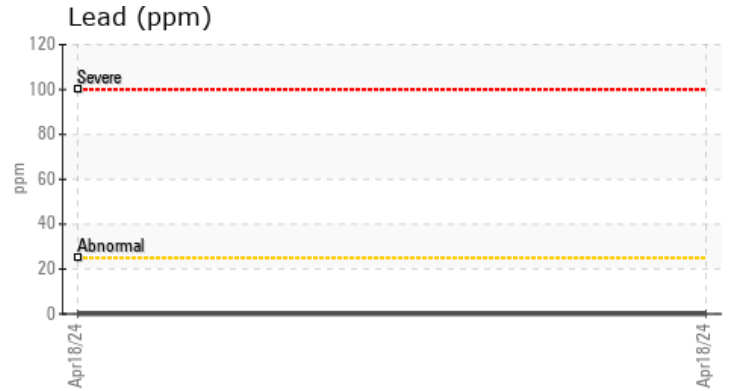
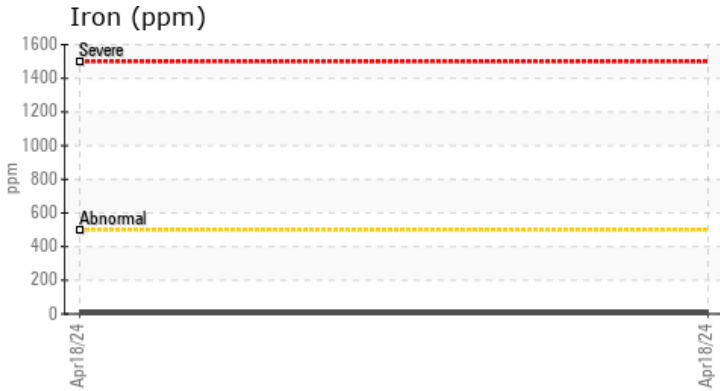
Depot: VOLVO8885
Unique No: 11004025
Signed: Wes Davis
Report Date: 30 Apr 2024



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

SPM702175 ALTER S SENNEBOGEN 840E 840.0.2350 - REAR AXLE



Sample No: VCP414250
Oil Type: GEAR OIL SAE 80W90
Job No: SPM702175 ALTER S



SAMPLE INFORMATION

Sample Number	VCP414250	---	---	---
Sample Date	18 Apr 2024	---	---	---
Machine Hours	4440	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---

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F:



OIL CONDITION

Visc @ 40°C	cSt	█ 144	---	---	---
-------------	-----	-------	-----	-----	-----



CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 3	---	---	---
Sodium	ppm	█ 1	---	---	---
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	█ 1	---	---	---
Copper	ppm	█ <1	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 1	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 10	---	---	---
Magnesium	ppm	█ 2	---	---	---
Zinc	ppm	█ 8	---	---	---
Phosphorus	ppm	█ 429	---	---	---
Barium	ppm	█ 1	---	---	---
Boron	ppm	0	---	---	---

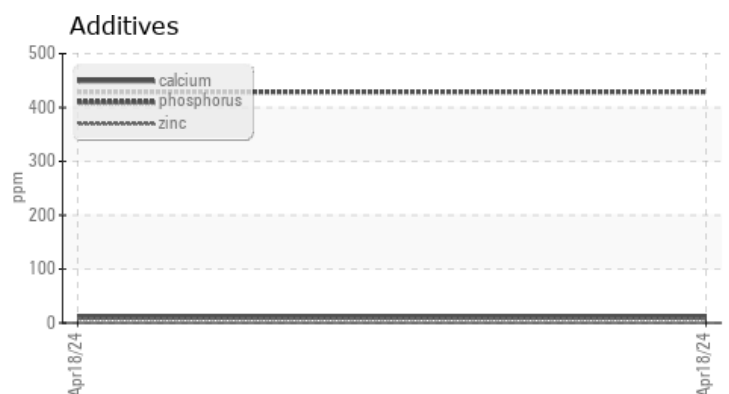
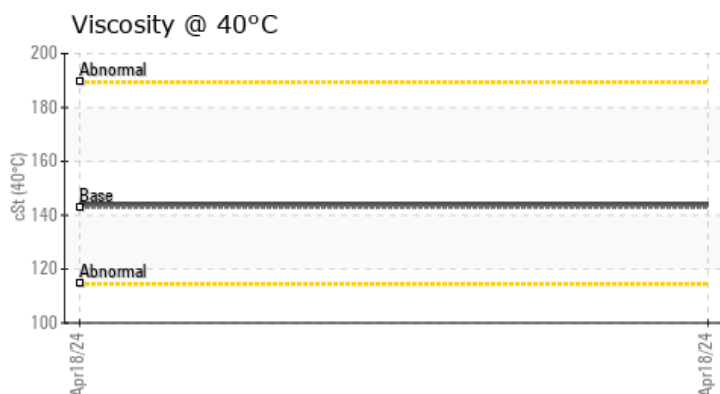
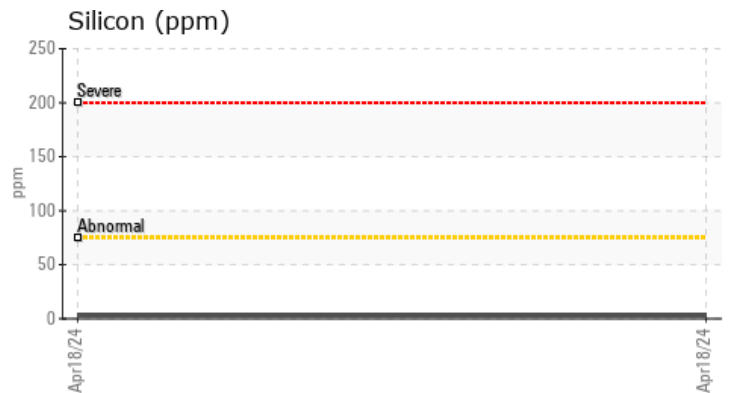
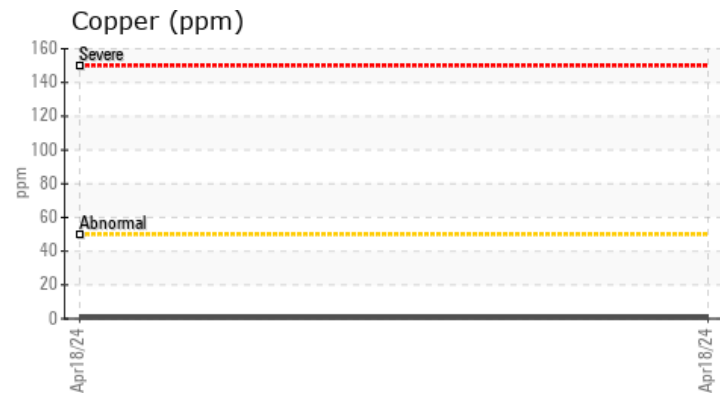
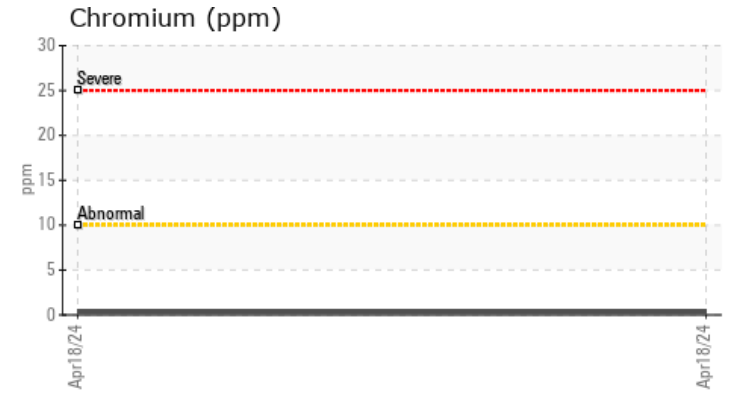
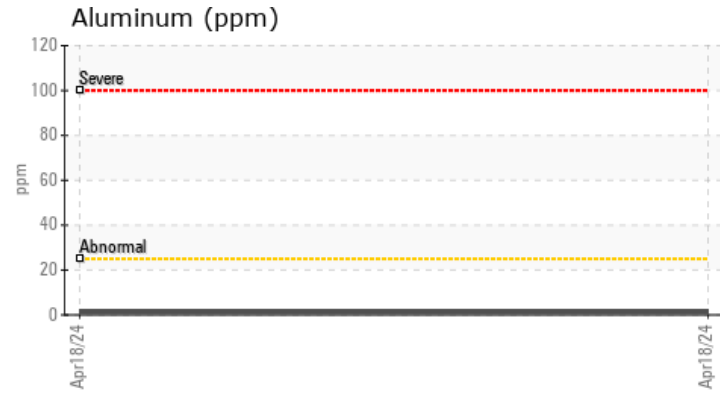
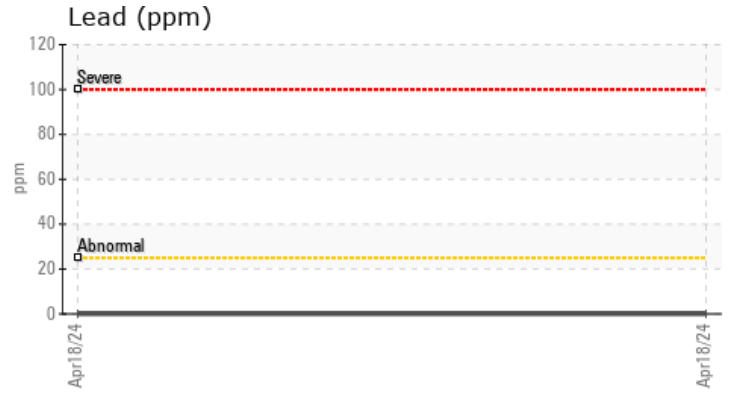
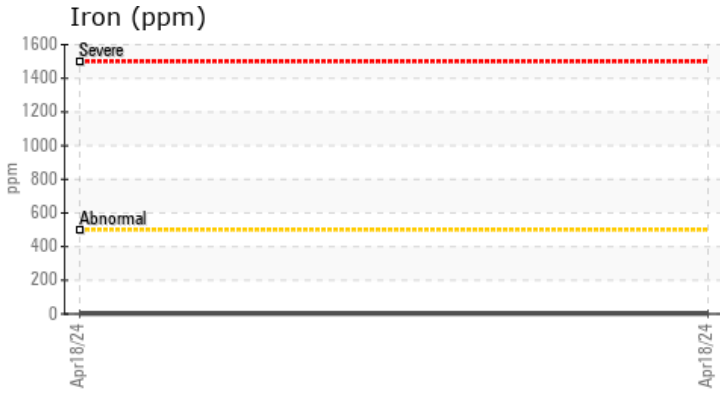
Depot: VOLVO8885
Unique No: 11004032
Signed: Wes Davis
Report Date: 30 Apr 2024



CONSTRUCTION EQUIPMENT



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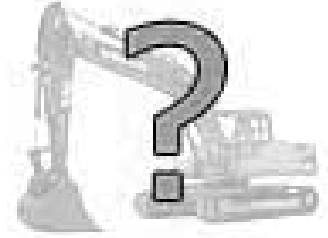


CONSTRUCTION EQUIPMENT

SPM702175 ALTER S SENNEBOGEN 840E 840.0.2350 - REAR RIGHT FINAL DRIVE



Sample No: VCP439221
Oil Type: GEAR OIL SAE 80W90
Job No: SPM702175 ALTER S



SAMPLE INFORMATION

Sample Number	VCP439221	---	---	---
Sample Date	18 Apr 2024	---	---	---
Machine Hours	4440	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---

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F:



OIL CONDITION

Visc @ 40°C	cSt	█ 145	---	---	---
-------------	-----	-------	-----	-----	-----



CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 3	---	---	---
Sodium	ppm	█ 2	---	---	---
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	█ 5	---	---	---
Copper	ppm	█ <1	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 1	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 15	---	---	---
Magnesium	ppm	█ 2	---	---	---
Zinc	ppm	█ 10	---	---	---
Phosphorus	ppm	█ 417	---	---	---
Barium	ppm	█ 1	---	---	---
Boron	ppm	0	---	---	---

Depot: VOLVO8885
Unique No: 11004027
Signed: Wes Davis
Report Date: 30 Apr 2024



CONSTRUCTION EQUIPMENT



GRAPHS

