



CONSTRUCTION EQUIPMENT

SPM675414 ALTER ROCK SENNEBOGEN 835ME 835.0.2938 - DIESEL ENGINE



Sample No: VCP350320
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM675414 ALTER ROCK



SAMPLE INFORMATION

Sample Number	VCP350320	VCP433443	VCP400501	VCP399960
Sample Date	27 Feb 2024	16 Nov 2023	10 Aug 2023	03 Apr 2023
Machine Hours	4783	4188	3684	2914
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	MARGINAL

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Contact: KEVIN SKRTICH
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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.6	■ 13.1	■ 13.0	■ 12.3
Base Number (BN)	mg KOH/g	■ 6.0	■ 8.2	■ 7.5	■ 6.1
Oxidation (PA)	%	76	65	70	73

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. Light fuel dilution occurring. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is suitable for further service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.2	■ 0.2	■ 0.2	■ 0.2
Nitration (PA)	%	68	63	73	68
Sulfation (PA)	%	60	56	55	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	▲ 3.3	<1.0	<1.0	▲ 3.8
Silicon	ppm	■ 3	■ 3	■ 3	■ 3
Sodium	ppm	■ 1	■ 4	■ 2	■ 0
Potassium	ppm	■ 2	■ <1	■ 5	■ 3



WEAR METALS

Iron	ppm	■ 12	■ 12	■ 18	■ 18
Copper	ppm	■ 1	■ 1	■ 1	■ <1
Lead	ppm	■ 1	■ 0	■ 0	■ 0
Tin	ppm	■ 0	■ 0	■ <1	■ <1
Aluminum	ppm	■ 2	■ 3	■ 3	■ 0
Chromium	ppm	■ <1	■ 0	■ 1	■ <1
Molybdenum	ppm	■ 54	■ 60	■ 59	■ 55
Nickel	ppm	■ 0	■ 0	■ <1	■ 0
Titanium	ppm	■ <1	■ 0	■ <1	■ 0
Silver	ppm	■ 0	■ 0	■ <1	■ 0
Manganese	ppm	■ 0	■ <1	■ <1	■ <1
Vanadium	ppm	■ <1	■ 0	■ <1	■ 0



ADDITIVES

Calcium	ppm	■ 1075	■ 1279	■ 1089	■ 1107
Magnesium	ppm	■ 970	■ 835	■ 1002	■ 853
Zinc	ppm	■ 1176	■ 1203	■ 1158	■ 1100
Phosphorus	ppm	■ 1029	■ 1005	■ 949	■ 913
Barium	ppm	■ 0	■ 0	■ 0	■ 2
Boron	ppm	■ 0	■ 15	■ <1	■ 5

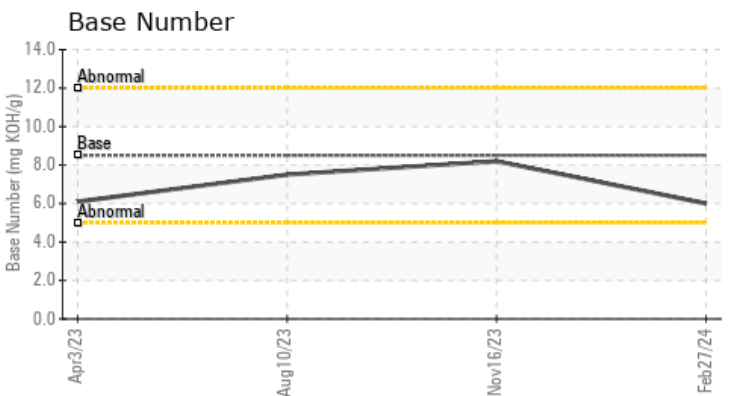
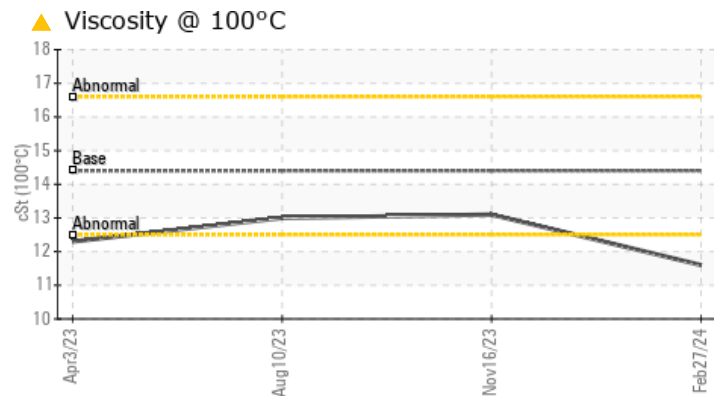
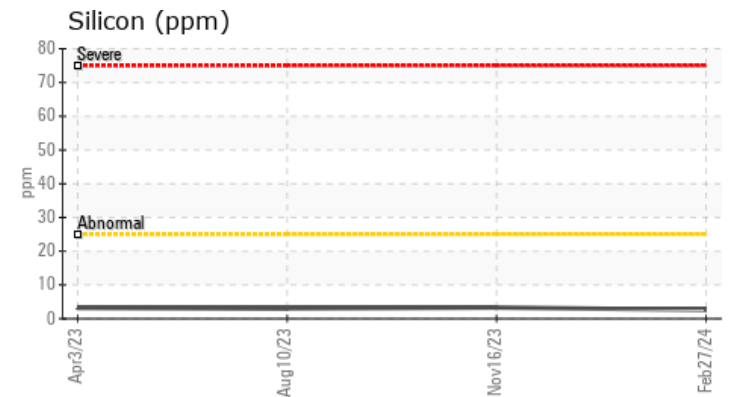
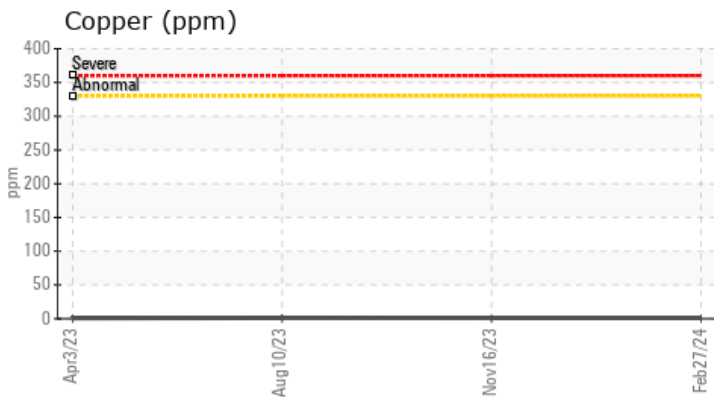
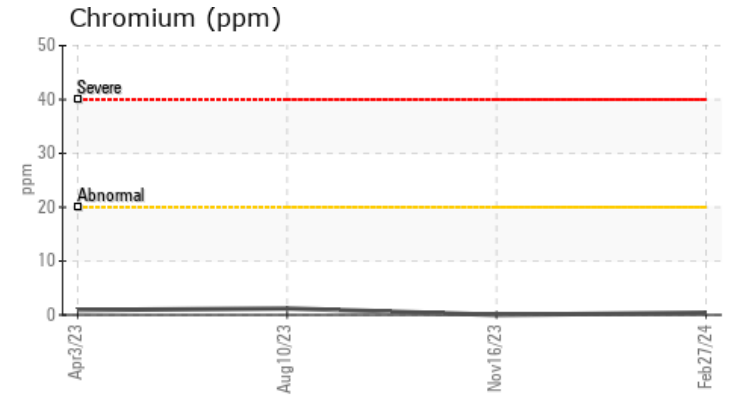
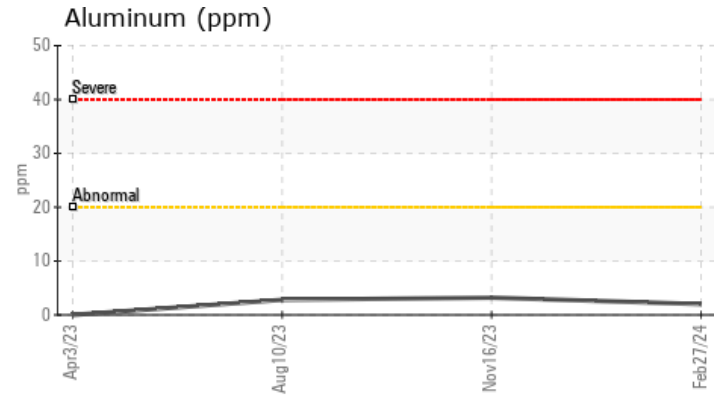
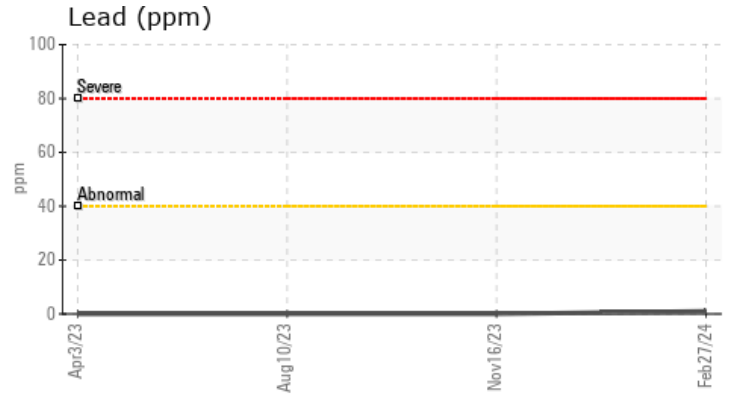
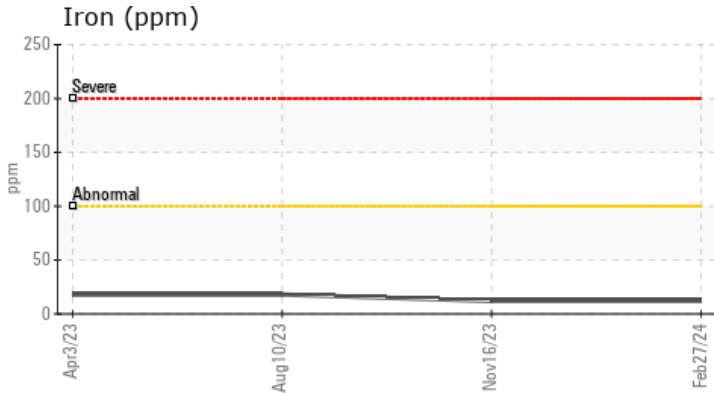
Depot: VOLVO5055
Unique No: 10914669
Signed: Wes Davis
Report Date: 11 Mar 2024



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

SPM675414 ALTER ROCK SENNEBOGEN 835ME 835.0.2938 - HYDRAULIC SYSTEM



Sample No: VCP350321
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SPM675414 ALTER ROCK



SAMPLE INFORMATION

Sample Number	VCP350321	---	---	---
Sample Date	27 Feb 2024	---	---	---
Machine Hours	4783	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	● 34.6	---	---	---
Acid Number (AN)	mg KOH/g	■ 0.92	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		▲ 10846	---	---	---
Particles >6µm		● 1807	---	---	---
Particles >14µm		■ 57	---	---	---
ISO 4406:1999 (c)		21/18/13	---	---	---
Silicon	ppm	■ 1	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 0	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. 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. Viscosity of sample indicates oil is within ISO 32 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.



WEAR METALS

Iron	ppm	■ 9	---	---	---
Copper	ppm	■ 6	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ <1	---	---	---
Chromium	ppm	■ 1	---	---	---
Molybdenum	ppm	■ 0	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 934	---	---	---
Magnesium	ppm	■ 17	---	---	---
Zinc	ppm	■ 584	---	---	---
Phosphorus	ppm	■ 474	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 0	---	---	---

Depot: VOLVO5055
Unique No: 10914861
Signed: Don Baldrige
Report Date: 09 Mar 2024

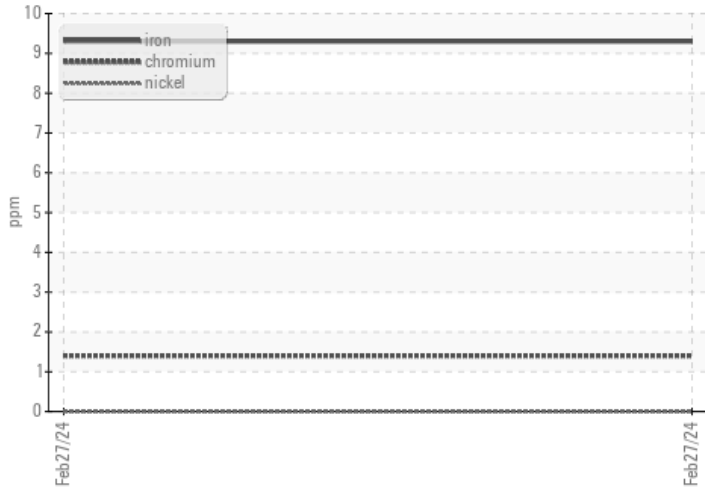


CONSTRUCTION EQUIPMENT

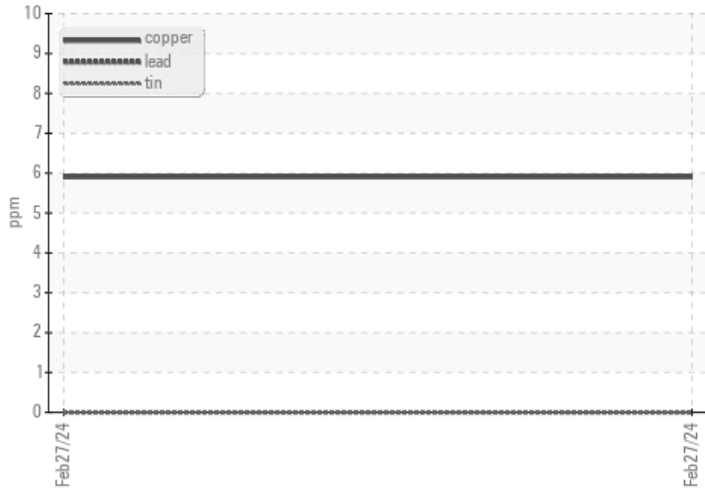


GRAPHS

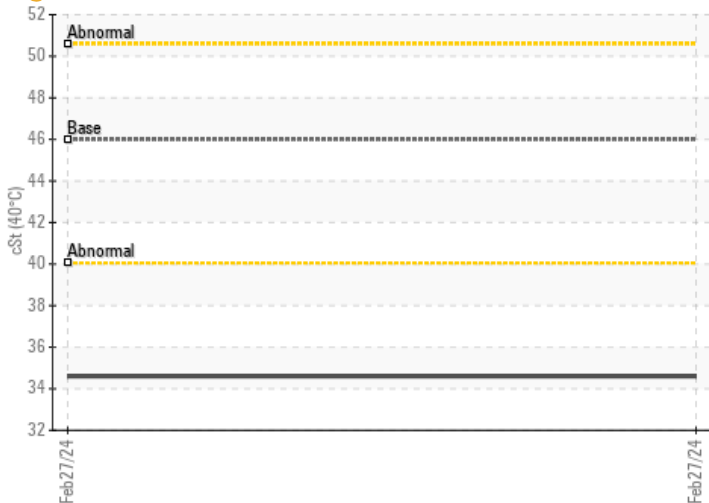
Ferrous Alloys



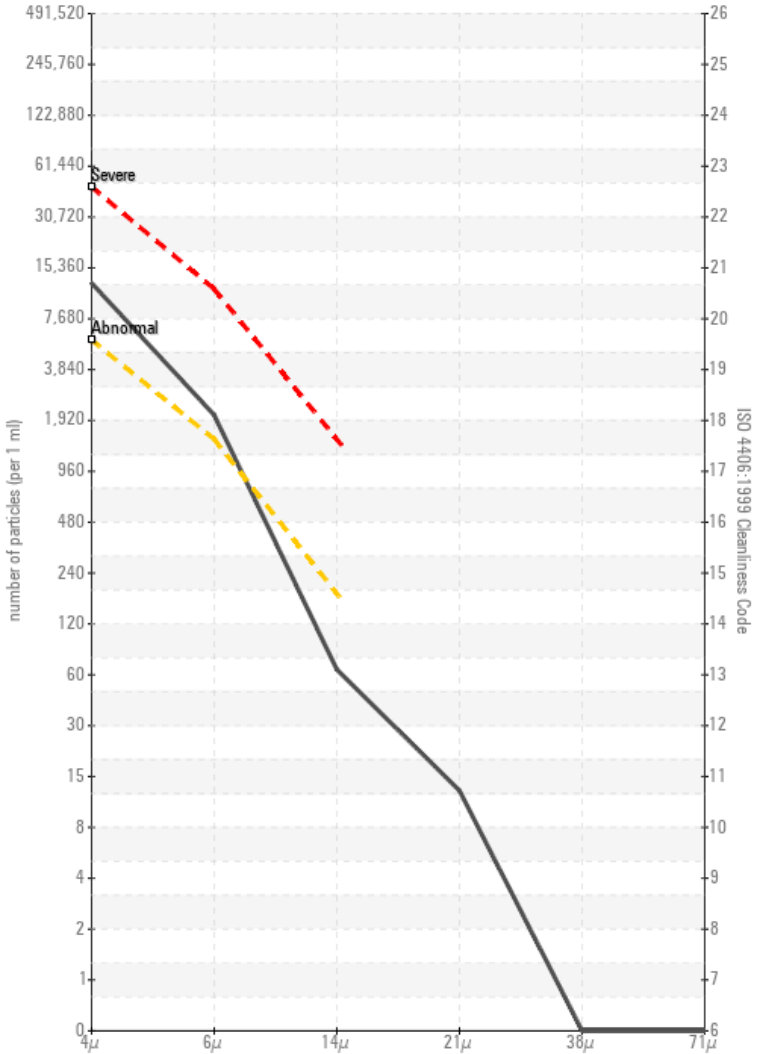
Non-ferrous Metals



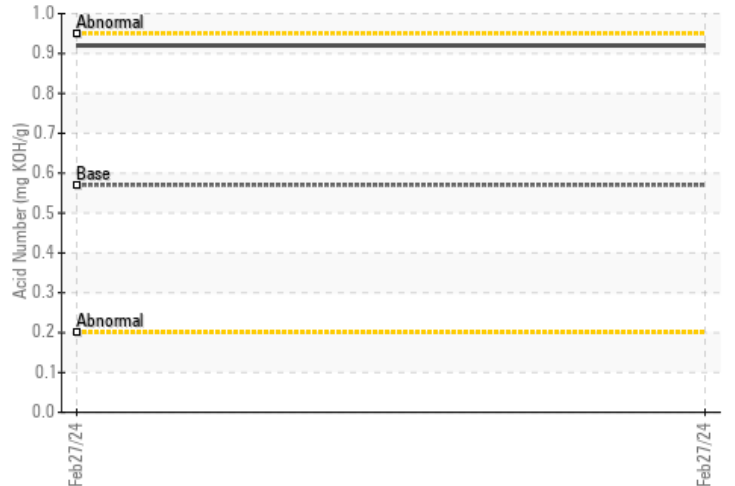
Viscosity @ 40°C



Particle Count



Acid Number



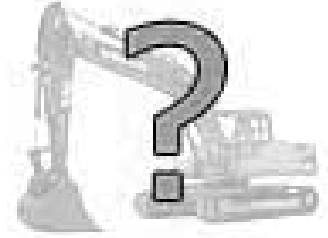


CONSTRUCTION EQUIPMENT

SPM675414 ALTER SENNEBOGEN 835ME 835.0.2938 - SWING DRIVE



Sample No: VCP350328
Oil Type: MOBIL SHC 630
Job No: SPM675414 ALTER



SAMPLE INFORMATION

Sample Number	VCP350328	VCP350318	---	---
Sample Date	27 Feb 2024	26 Feb 2024	---	---
Machine Hours	4783	4783	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 40°C	cSt	225	221	---	---
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CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	19	20	---	---
Sodium	ppm	<1	1	---	---
Potassium	ppm	0	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	161	252	---	---
Copper	ppm	20	58	---	---
Lead	ppm	0	0	---	---
Tin	ppm	2	5	---	---
Aluminum	ppm	0	0	---	---
Chromium	ppm	1	2	---	---
Molybdenum	ppm	0	0	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	1	2	---	---
Vanadium	ppm	<1	<1	---	---



ADDITIVES

Calcium	ppm	<1	8	---	---
Magnesium	ppm	0	<1	---	---
Zinc	ppm	5	7	---	---
Phosphorus	ppm	316	356	---	---
Barium	ppm	0	0	---	---
Boron	ppm	0	0	---	---

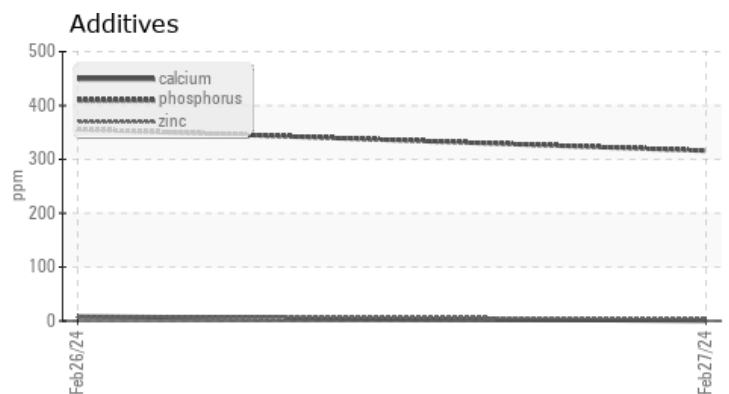
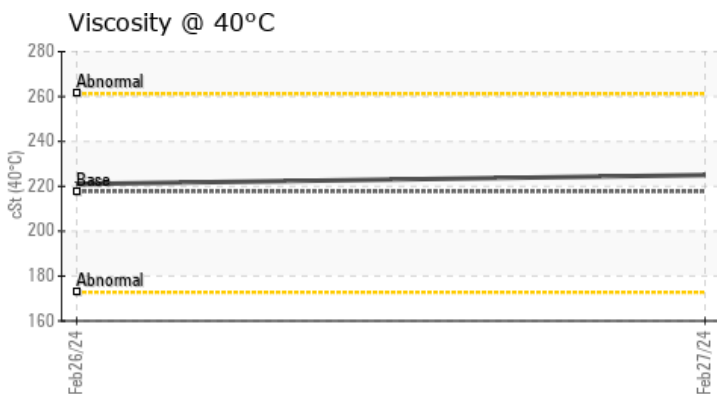
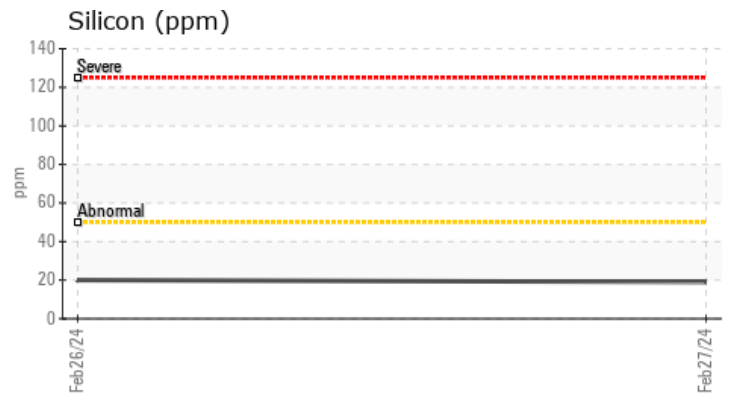
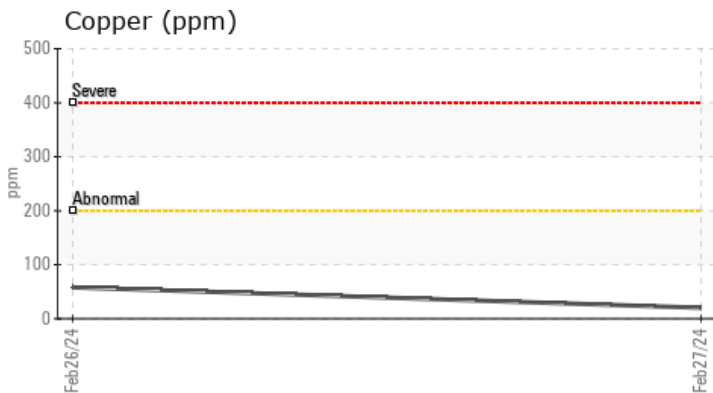
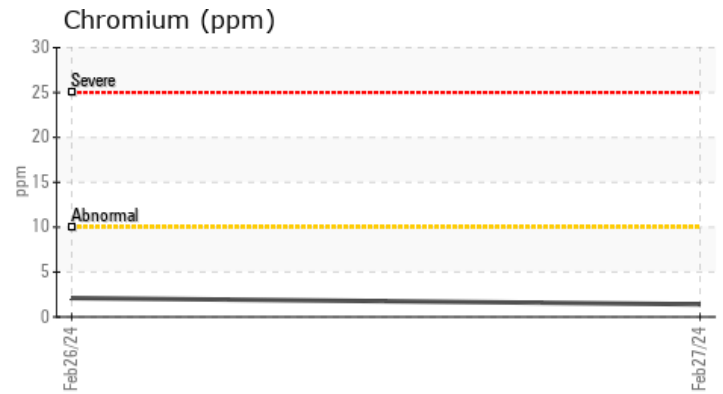
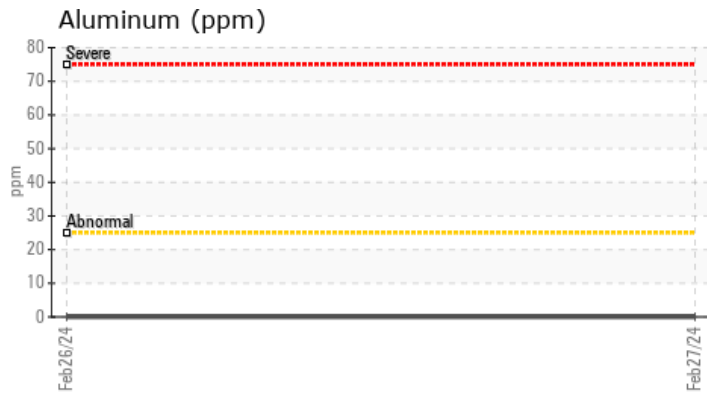
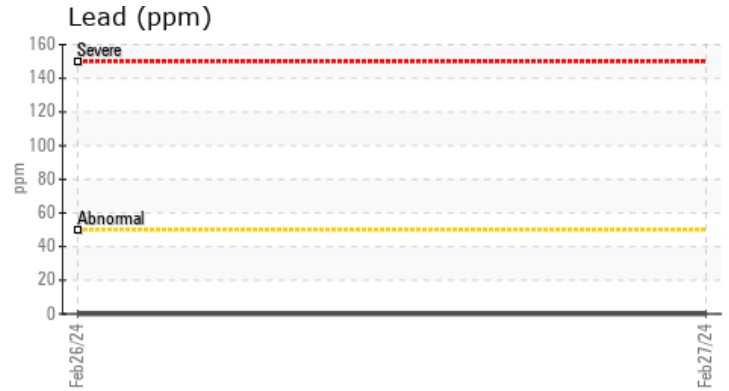
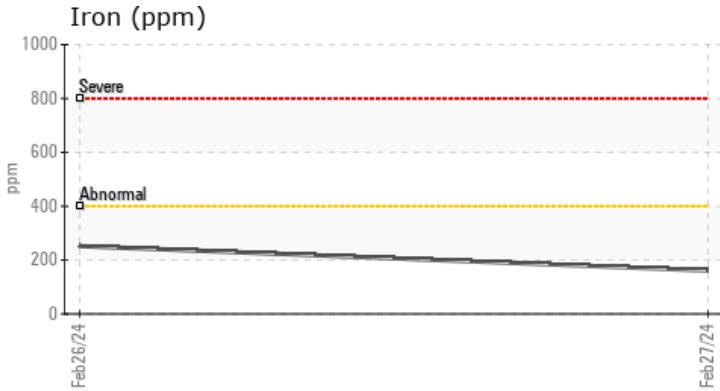
Depot: VOLVO5055
Unique No: 10915246
Signed: Don Baldrige
Report Date: 11 Mar 2024



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

SPM675414 ALTER SENNEBOGEN 835ME 835.0.2938 - FRONT LEFT FINAL DRIVE



Sample No: VCP350324
Oil Type: GEAR OIL SAE 80W90
Job No: SPM675414 ALTER



SAMPLE INFORMATION

Sample Number	VCP350324	VCP350323	VCP400511	---
Sample Date	27 Feb 2024	27 Feb 2024	10 Aug 2023	---
Machine Hours	4783	4783	3684	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	N/A	---
Sample Status	NORMAL	NORMAL	ABNORMAL	---

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OIL CONDITION

Visc @ 40°C	cSt	139	138	149	---
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CONTAMINATION

Water	%	NEG	NEG	NEG	---
Silicon	ppm	2	2	2	---
Sodium	ppm	2	2	2	---
Potassium	ppm	0	0	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	67	82	93	---
Copper	ppm	36	47	▲ 135	---
Lead	ppm	0	0	0	---
Tin	ppm	0	0	0	---
Aluminum	ppm	1	2	4	---
Chromium	ppm	0	0	<1	---
Molybdenum	ppm	0	0	0	---
Nickel	ppm	0	0	0	---
Titanium	ppm	<1	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	2	3	7	---
Vanadium	ppm	<1	<1	0	---



ADDITIVES

Calcium	ppm	24	26	5	---
Magnesium	ppm	<1	<1	2	---
Zinc	ppm	23	34	109	---
Phosphorus	ppm	639	662	2093	---
Barium	ppm	6	6	45	---
Boron	ppm	27	30	162	---

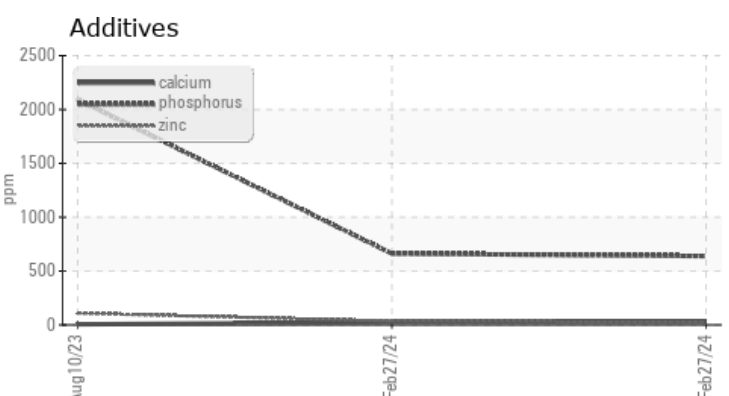
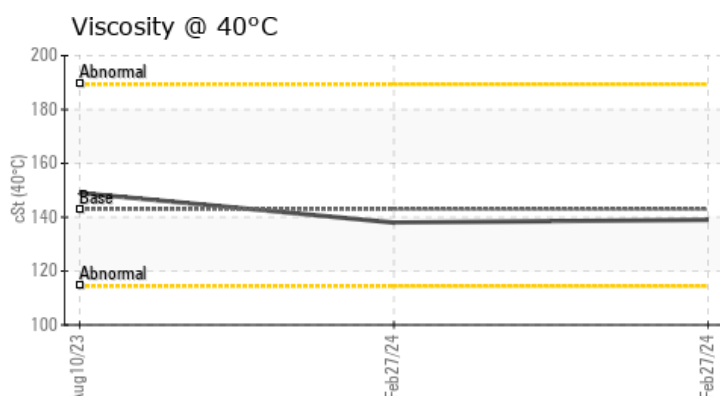
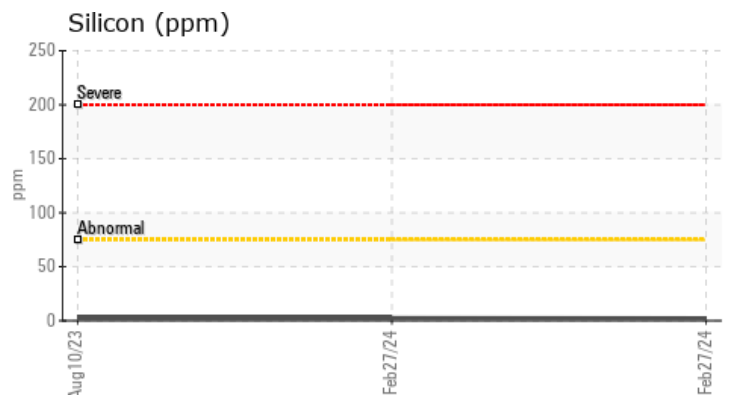
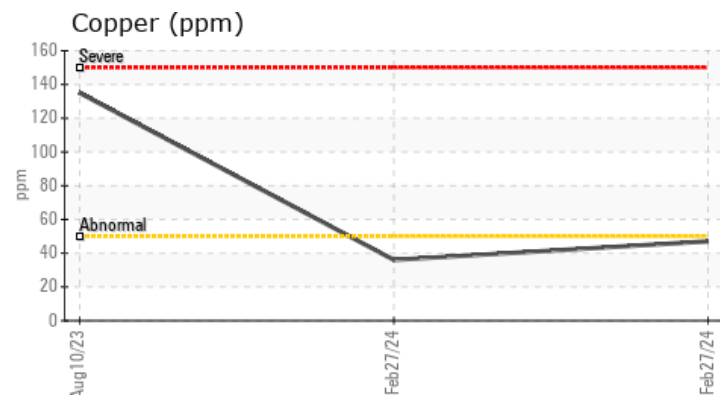
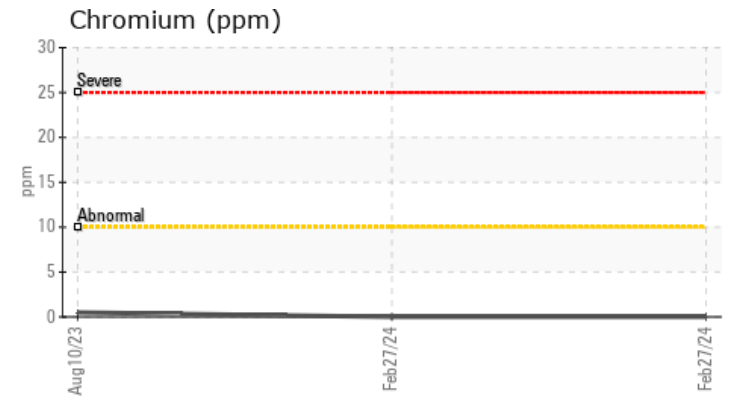
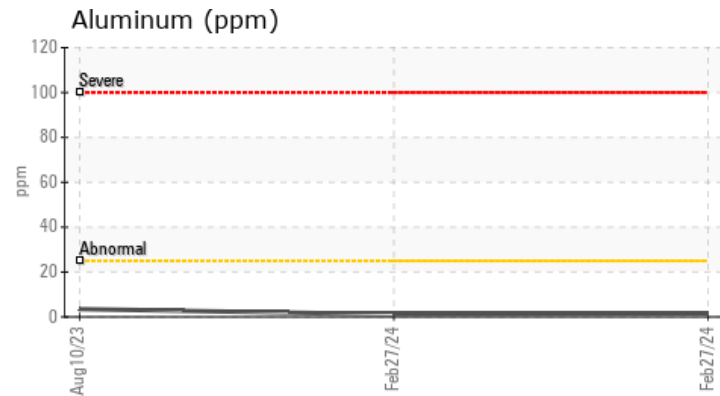
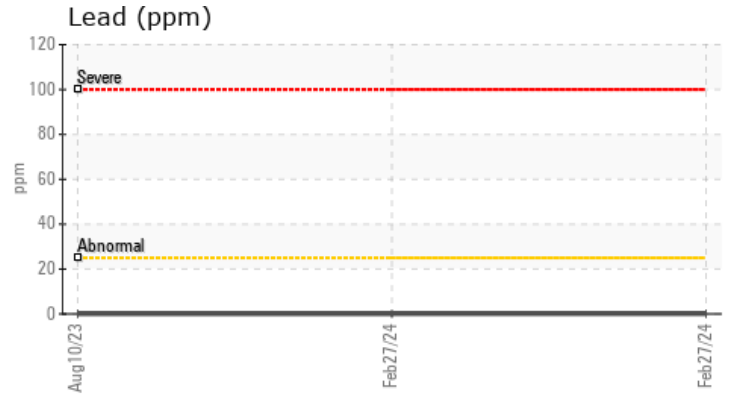
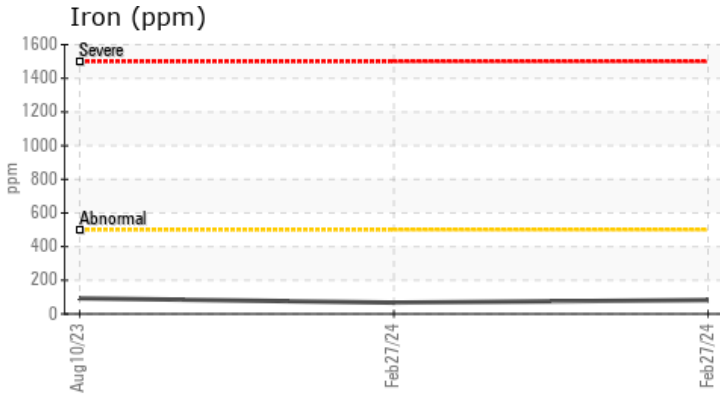
Depot: VOLVO5055
Unique No: 10915245
Signed: Wes Davis
Report Date: 08 Mar 2024



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

SPM593872 ALTER ROCK SENNEBOGEN 835ME 835.0.2938 - FRONT AXLE



Sample No: VCP400508
Oil Type: GEAR OIL SAE 80W90
Job No: SPM593872 ALTER ROCK



SAMPLE INFORMATION

Sample Number	VCP400508	---	---	---
Sample Date	10 Aug 2023	---	---	---
Machine Hours	3684	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

ALTA CONSTRUCTION EQUIPMENT

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Contact: ALEX MARCO

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OIL CONDITION

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

Silicon	ppm	█ 2	---	---	---
Sodium	ppm	█ 0	---	---	---
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	█ 4	---	---	---
Copper	ppm	█ 3	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
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	█ 4	---	---	---
Magnesium	ppm	█ 2	---	---	---
Zinc	ppm	█ 7	---	---	---
Phosphorus	ppm	█ 2096	---	---	---
Barium	ppm	█ 11	---	---	---
Boron	ppm	█ 182	---	---	---

Depot: VOLVO5055

Unique No: 10609007

Signed: Sean Felton

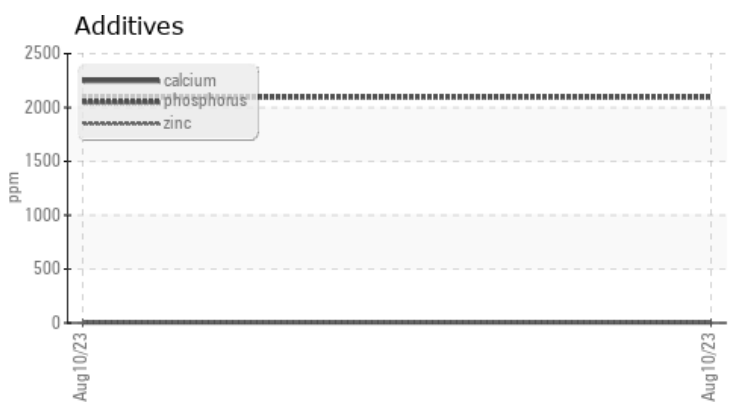
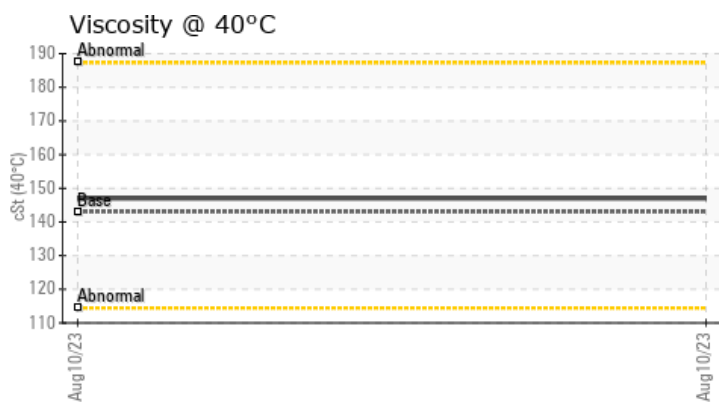
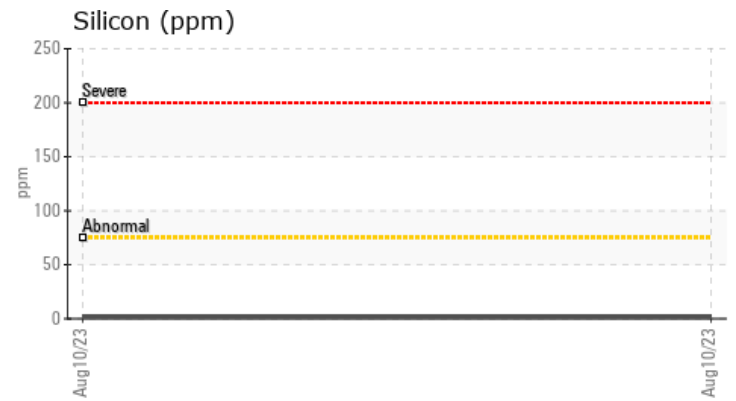
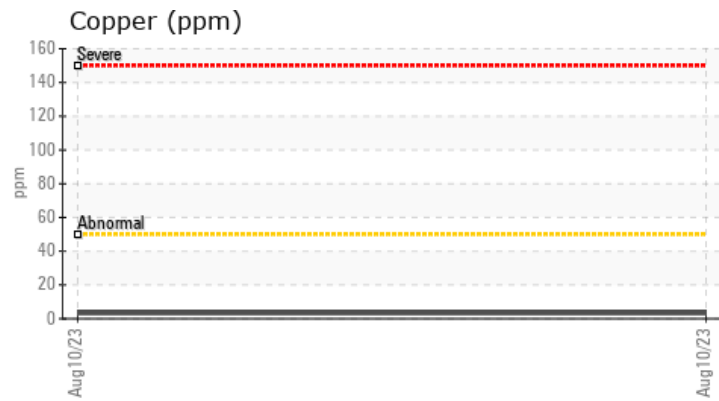
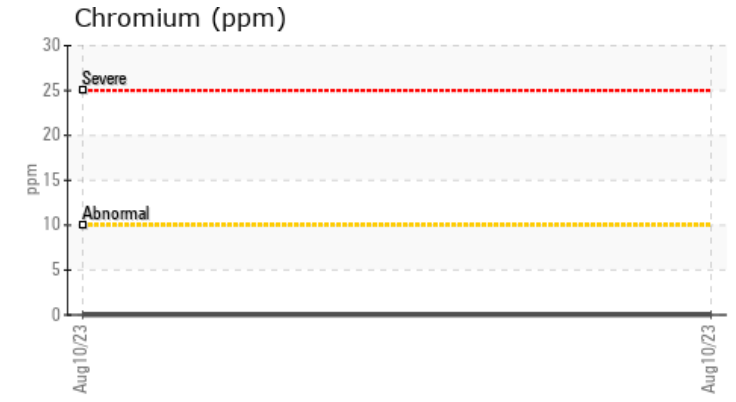
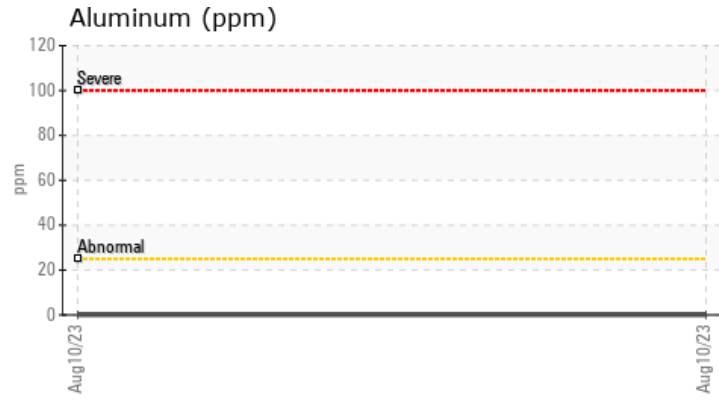
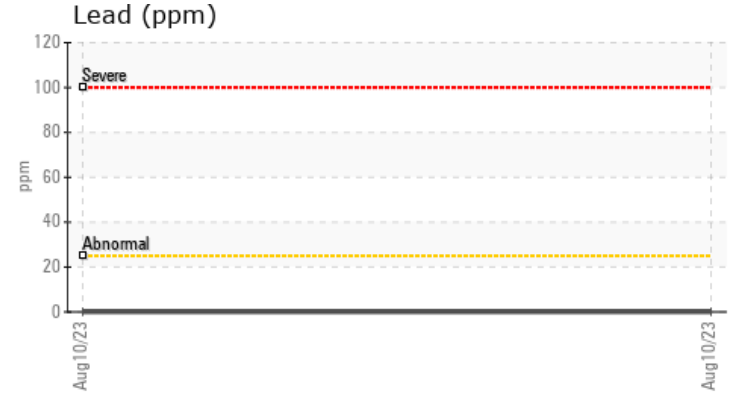
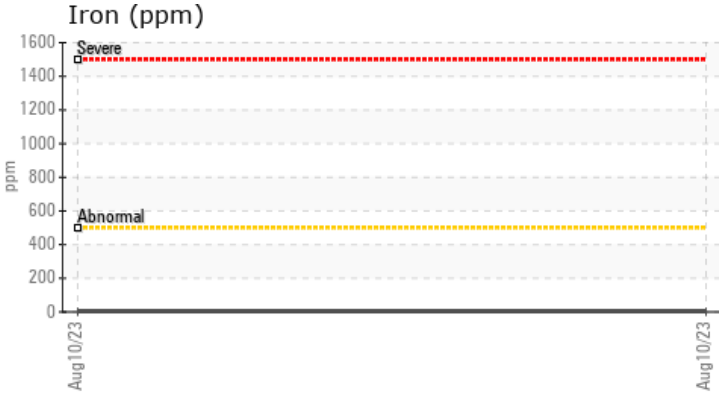
Report Date: 21 Aug 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS





CONSTRUCTION EQUIPMENT

SPM593872 ALTER ROCK SENNEBOGEN 835ME 835.0.2938 - FRONT RIGHT FINAL DRIVE



Sample No: VCP400504
Oil Type: GEAR OIL SAE 80W90
Job No: SPM593872 ALTER ROCK



SAMPLE INFORMATION

Sample Number	VCP400504	---	---	---
Sample Date	10 Aug 2023	---	---	---
Machine Hours	3684	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	█ 149	---	---	---
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CONTAMINATION

Silicon	ppm	█ 3	---	---	---
Sodium	ppm	█ <1	---	---	---
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	█ 43	---	---	---
Copper	ppm	█ 8	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 0	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 0	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 13	---	---	---
Magnesium	ppm	█ 2	---	---	---
Zinc	ppm	█ 15	---	---	---
Phosphorus	ppm	█ 2005	---	---	---
Barium	ppm	█ 47	---	---	---
Boron	ppm	█ 164	---	---	---

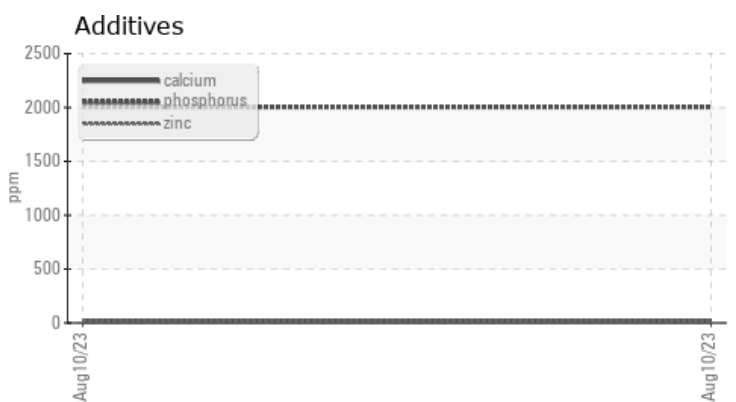
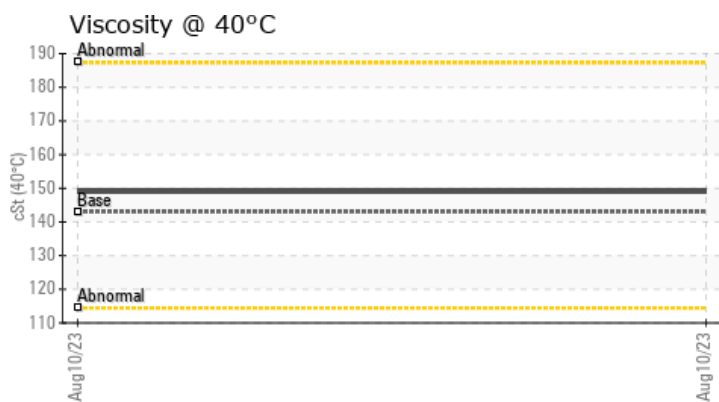
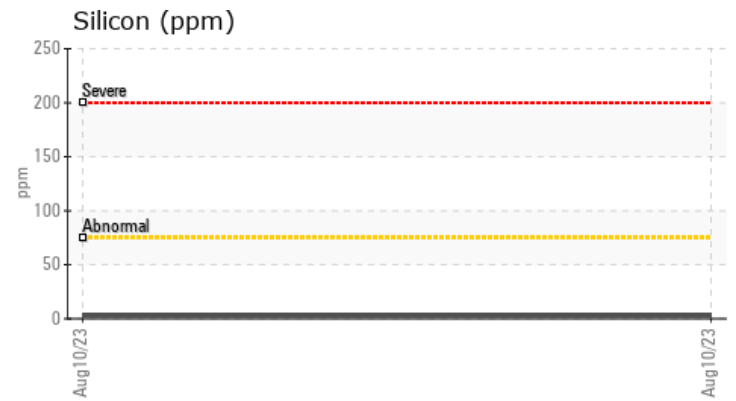
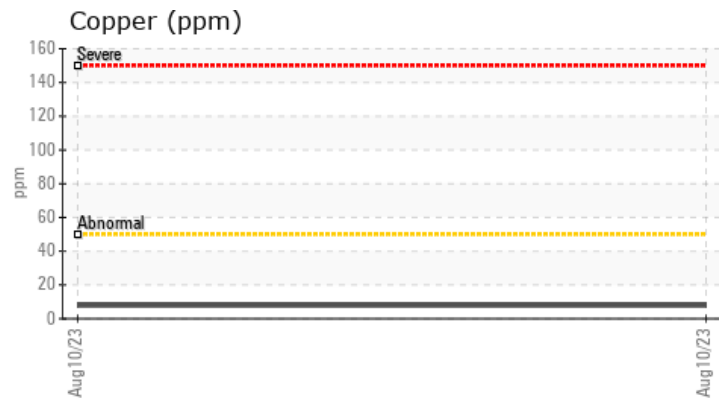
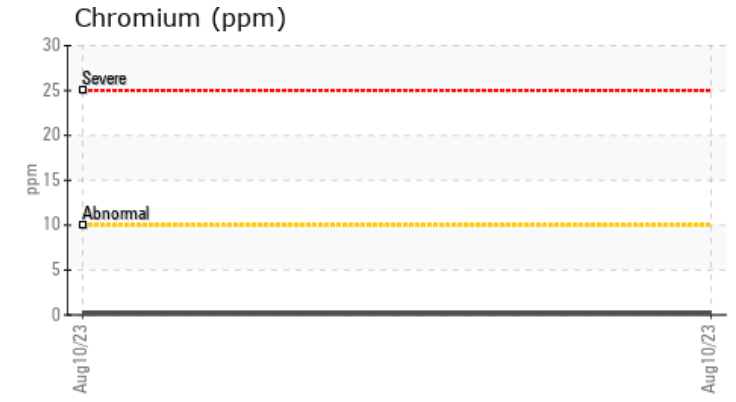
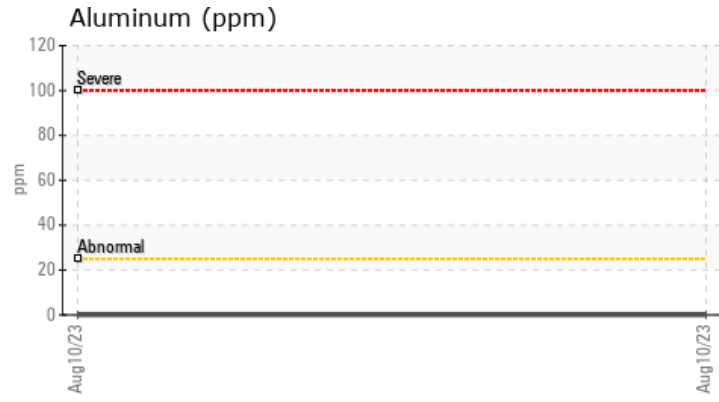
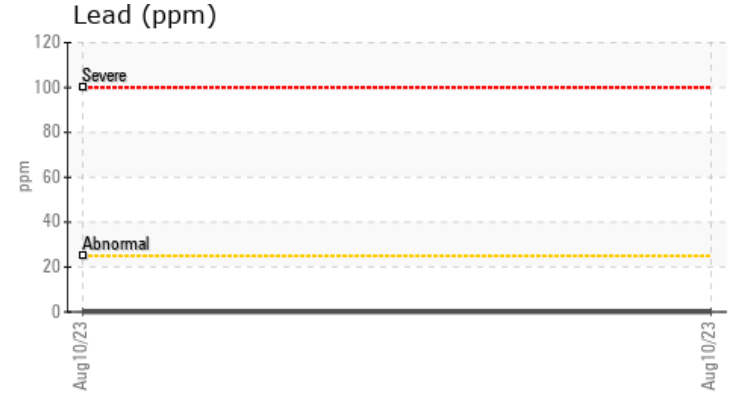
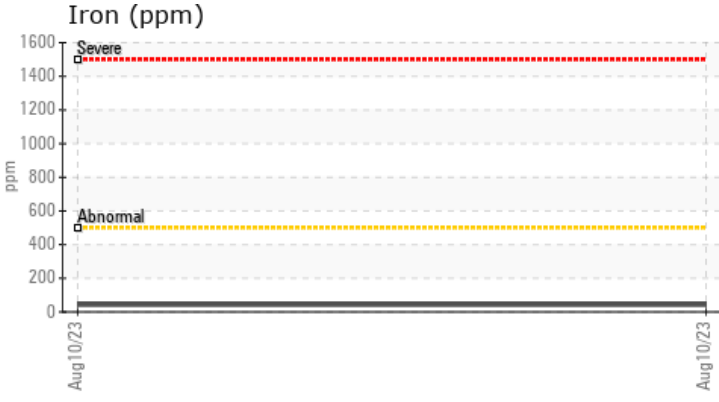
Depot: VOLVO5055
Unique No: 10609006
Signed: Sean Felton
Report Date: 21 Aug 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS





CONSTRUCTION EQUIPMENT

SPM675414 SENNEBOGEN 835ME 835.0.2938 - REAR LEFT FINAL DRIVE



Sample No: VCP350326
Oil Type: GEAR OIL SAE 80W90
Job No: SPM675414



SAMPLE INFORMATION

Sample Number	VCP350326	VCP400505	---	---
Sample Date	27 Feb 2024	10 Aug 2023	---	---
Machine Hours	4783	3684	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

ALTA CONSTRUCTION EQUIPMENT
613 E STEVENSON RD
OTTAWA, IL
US 61350
Contact: KEVIN SKRTICH
KEVIN.SKRTICH@ALTAEQUIPMENT.COM
T:
F:



OIL CONDITION

Visc @ 40°C	cSt	█ 137	█ 147	---	---
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CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	█ 2	█ 3	---	---
Sodium	ppm	█ 1	█ <1	---	---
Potassium	ppm	█ 0	█ 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	█ 46	█ 43	---	---
Copper	ppm	█ 4	█ 7	---	---
Lead	ppm	█ 0	█ 0	---	---
Tin	ppm	█ 0	█ 0	---	---
Aluminum	ppm	█ 0	█ 0	---	---
Chromium	ppm	█ 0	█ <1	---	---
Molybdenum	ppm	█ 0	█ 0	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	█ 30	█ 13	---	---
Magnesium	ppm	█ <1	█ 1	---	---
Zinc	ppm	█ 10	█ 15	---	---
Phosphorus	ppm	█ 527	█ 1998	---	---
Barium	ppm	█ 4	█ 47	---	---
Boron	ppm	█ 14	█ 166	---	---

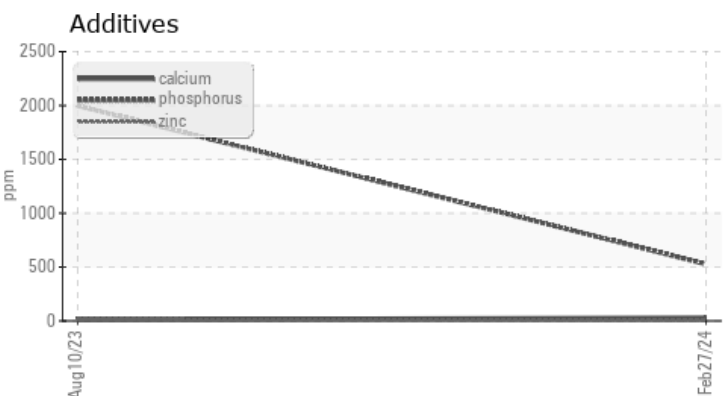
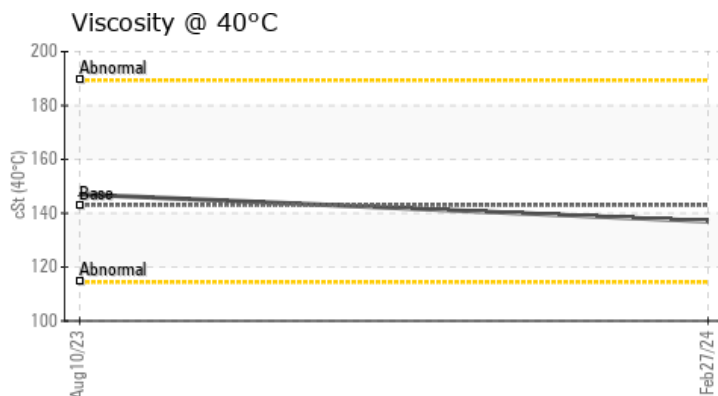
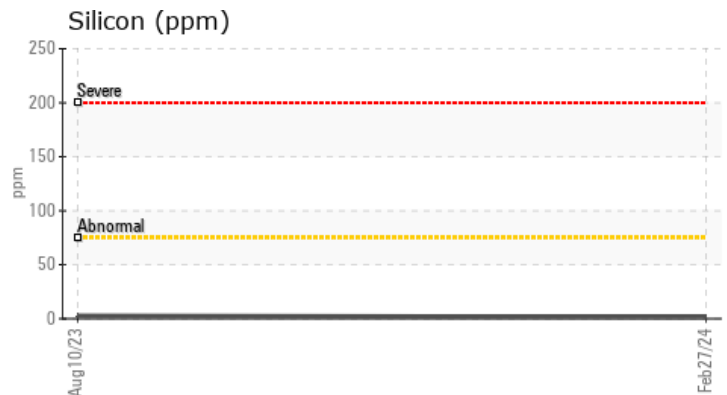
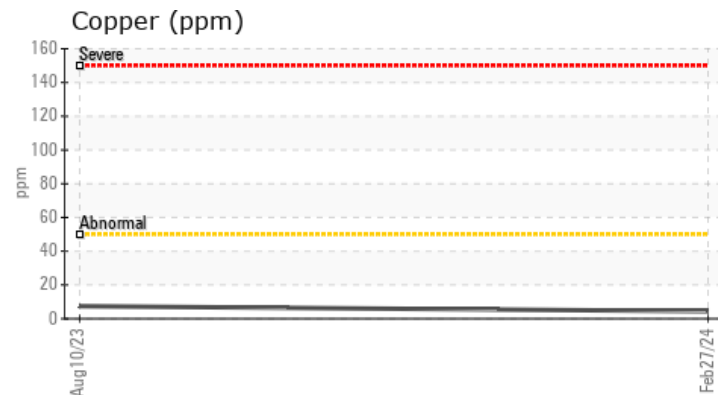
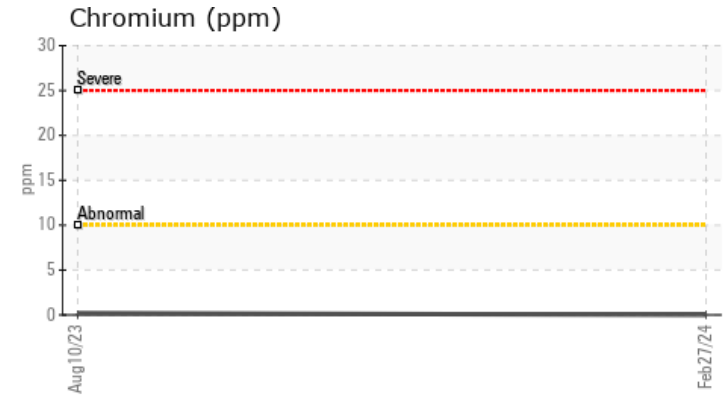
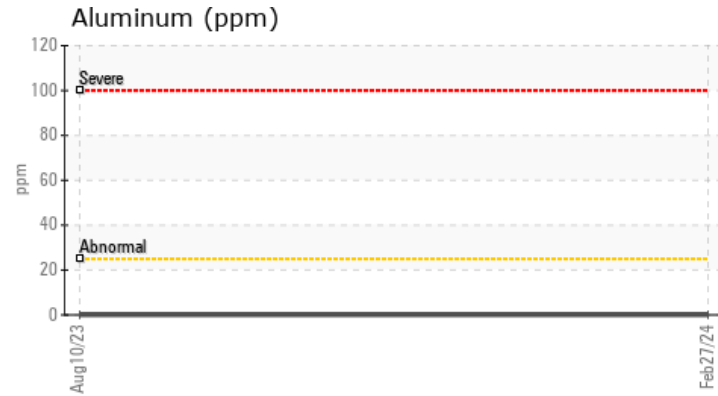
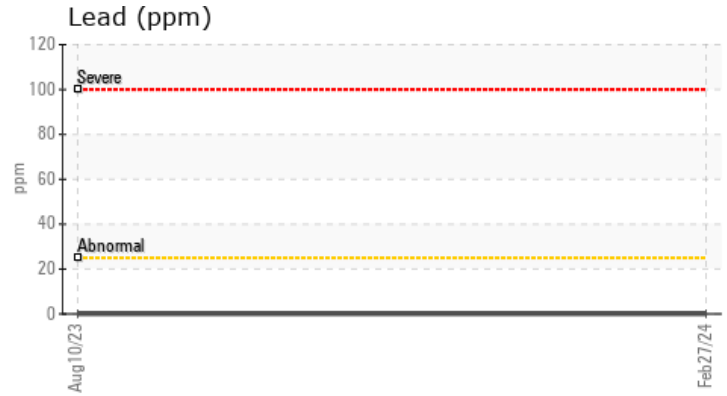
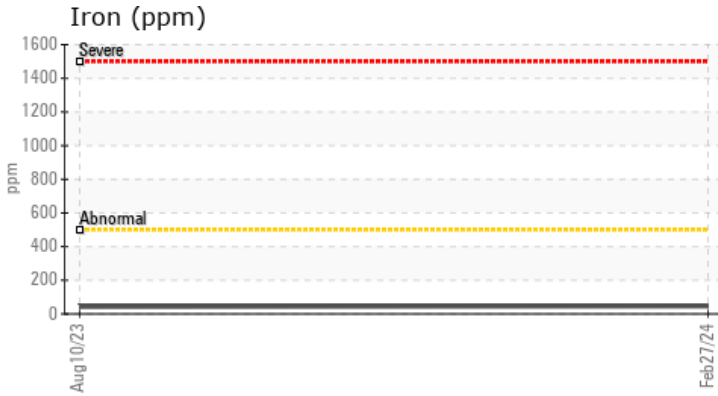
Depot: VOLVO5055
Unique No: 10915244
Signed: Wes Davis
Report Date: 08 Mar 2024



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

SPM593872 ALTER ROCK SENNEBOGEN 835ME 835.0.2938 - REAR AXLE



Sample No: VCP400509
Oil Type: GEAR OIL SAE 80W90
Job No: SPM593872 ALTER ROCK



SAMPLE INFORMATION

Sample Number	VCP400509	---	---	---
Sample Date	10 Aug 2023	---	---	---
Machine Hours	3684	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

ALTA CONSTRUCTION EQUIPMENT

613 E STEVENSON RD

OTTAWA, IL

US 61350

Contact: ALEX MARCO

ALEXANDER.MARCO@ALTG.COM

T:

F:



OIL CONDITION

Visc @ 40°C	cSt	█ 149	---	---	---
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CONTAMINATION

Silicon	ppm	█ 2	---	---	---
Sodium	ppm	█ 1	---	---	---
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	█ 43	---	---	---
Copper	ppm	█ 8	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 0	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 0	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 14	---	---	---
Magnesium	ppm	█ 2	---	---	---
Zinc	ppm	█ 16	---	---	---
Phosphorus	ppm	█ 2070	---	---	---
Barium	ppm	█ 48	---	---	---
Boron	ppm	█ 169	---	---	---

Depot: VOLVO5055

Unique No: 10609010

Signed: Sean Felton

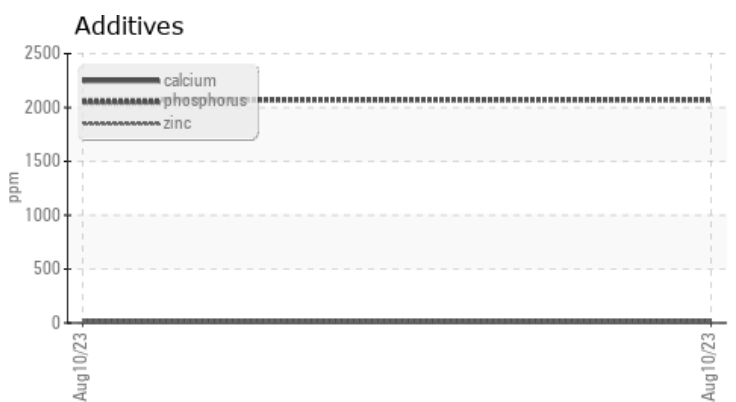
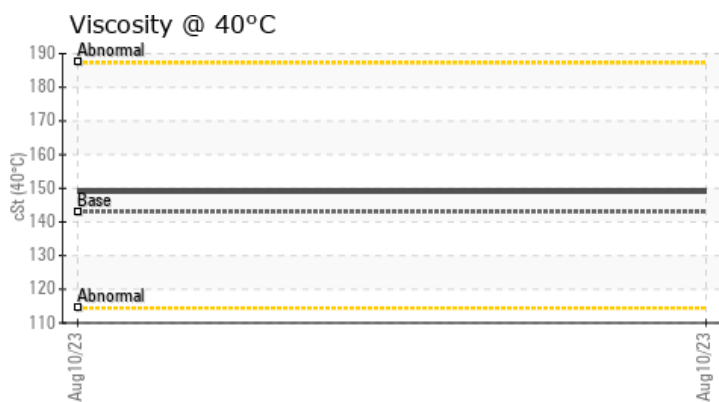
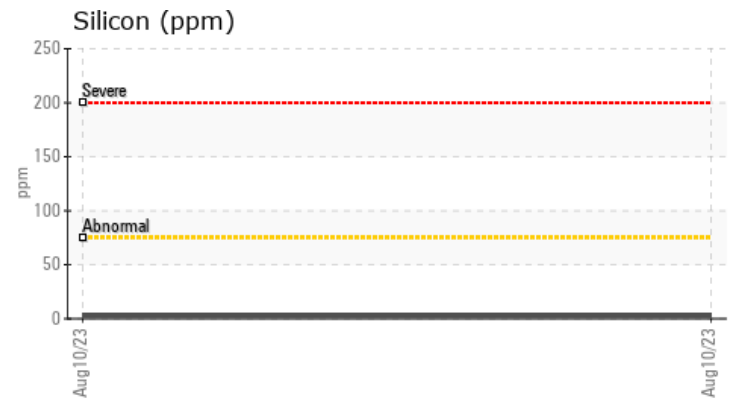
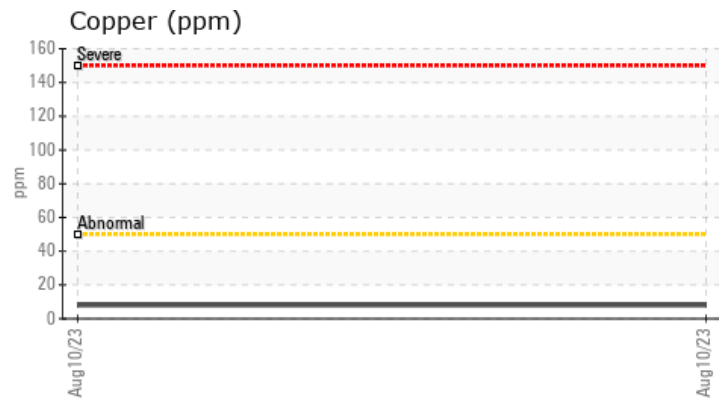
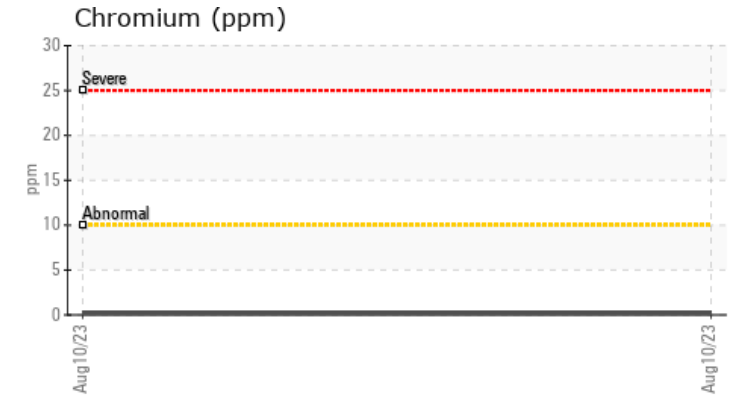
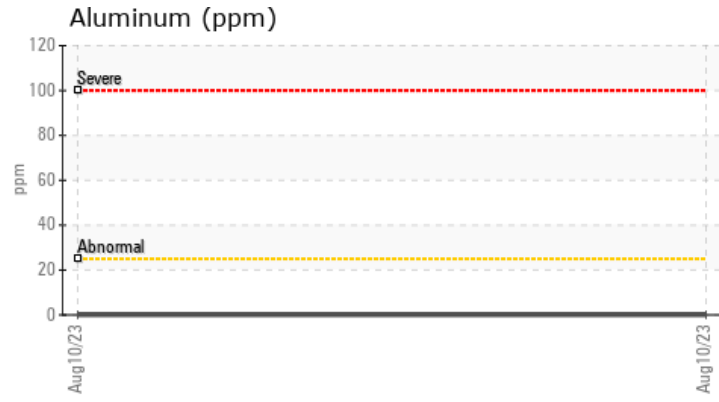
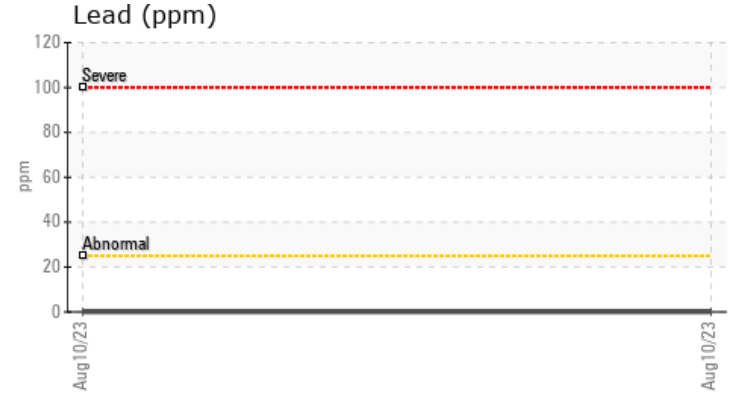
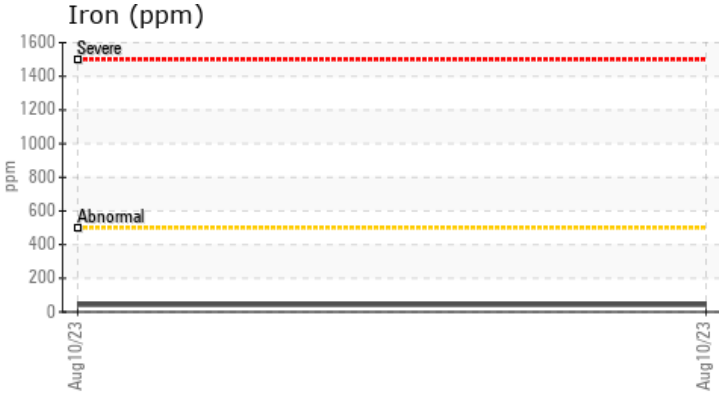
Report Date: 21 Aug 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS





CONSTRUCTION EQUIPMENT

SPM675414 ALTER SENNEBOGEN 835ME 835.0.2938 - REAR RIGHT FINAL DRIVE



Sample No: VCP350322
Oil Type: GEAR OIL SAE 80W90
Job No: SPM675414 ALTER



SAMPLE INFORMATION

Sample Number	VCP350322	VCP350318	VCP400503	---
Sample Date	27 Feb 2024	27 Feb 2024	10 Aug 2023	---
Machine Hours	4783	4783	3684	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	---	ABNORMAL	---

ALTA CONSTRUCTION EQUIPMENT

613 E STEVENSON RD
OTTAWA, IL
US 61350
Contact: ALEX MARCO
ALEXANDER.MARCO@ALTG.COM
T:
F:



OIL CONDITION

Visc @ 40°C	cSt	137	221	146	---
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CONTAMINATION

Water	%	NEG	NEG	NEG	---
Silicon	ppm	3	20	2	---
Sodium	ppm	1	1	2	---
Potassium	ppm	0	0	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	50	252	77	---
Copper	ppm	5	58	138	---
Lead	ppm	0	0	0	---
Tin	ppm	0	5	0	---
Aluminum	ppm	0	0	4	---
Chromium	ppm	0	2	<1	---
Molybdenum	ppm	0	0	0	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	2	6	---
Vanadium	ppm	<1	<1	0	---



ADDITIVES

Calcium	ppm	31	8	5	---
Magnesium	ppm	0	<1	1	---
Zinc	ppm	11	7	109	---
Phosphorus	ppm	537	356	2008	---
Barium	ppm	4	0	35	---
Boron	ppm	13	0	159	---

Depot: VOLVO5055
Unique No: 10915242
Signed: Wes Davis
Report Date: 08 Mar 2024



CONSTRUCTION EQUIPMENT



GRAPHS

