



CONSTRUCTION EQUIPMENT

SPM702170 ALTER SB SENNEBOGEN 840E 840.0.2195 - DIESEL ENGINE



Sample No: VCP367136
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM702170 ALTER SB



SAMPLE INFORMATION

Sample Number	VCP367136	VCP433804	VCP433391	VCP424693
Sample Date	16 Apr 2024	02 Feb 2024	17 Nov 2023	19 Jul 2023
Machine Hours	11148	10557	10000	9498
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	MARGINAL	NORMAL	NORMAL

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 Contact: MARK DEROSA
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OIL CONDITION

Visc @ 100°C	cSt	12.9	12.1	13.7	13.5
Base Number (BN)	mg KOH/g	8.7	6.2	8.5	6.7
Oxidation (PA)	%	72	74	69	70

Diagnosis

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

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	72	68	66	70
Sulfation (PA)	%	55	60	55	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	▲ 2.3	<1.0	<1.0
Silicon	ppm	2	2	9	2
Sodium	ppm	1	1	4	0
Potassium	ppm	0	0	<1	3

WEAR METALS

Iron	ppm	5	4	30	7
Copper	ppm	<1	<1	12	1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	<1	0
Aluminum	ppm	<1	1	8	1
Chromium	ppm	0	<1	1	<1
Molybdenum	ppm	60	56	53	60
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1129	1048	1736	1061
Magnesium	ppm	1022	966	617	903
Zinc	ppm	1312	1136	1339	1196
Phosphorus	ppm	1047	1003	1067	971
Barium	ppm	0	0	0	0
Boron	ppm	0	0	17	0

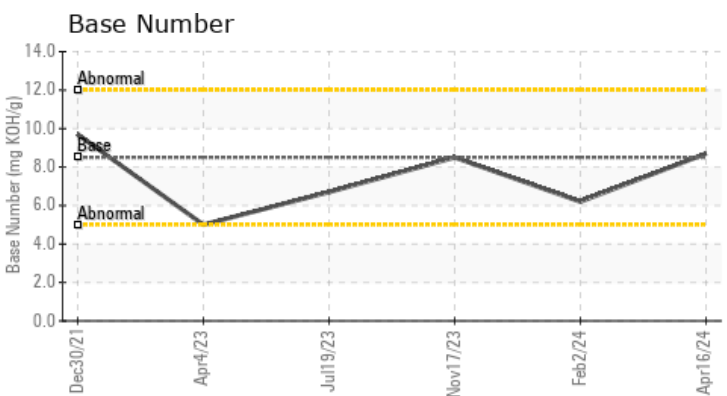
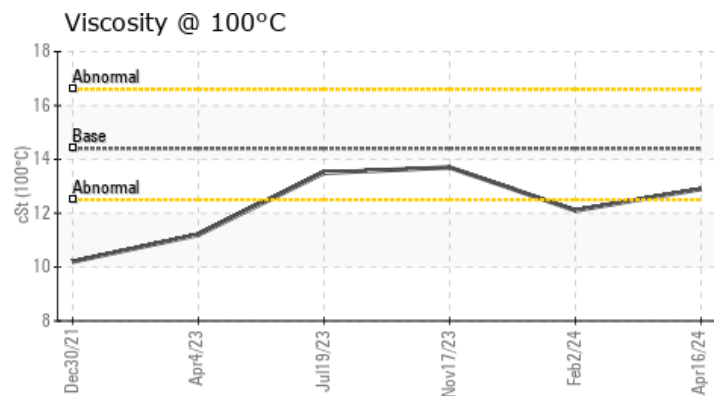
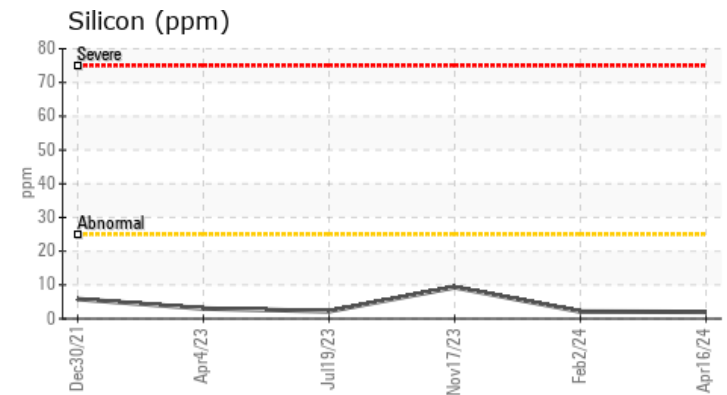
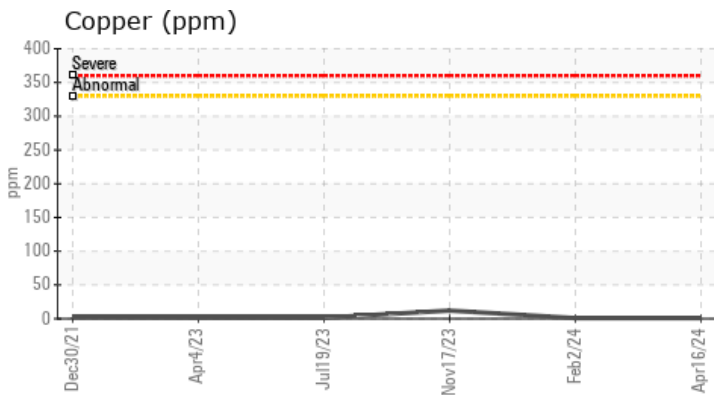
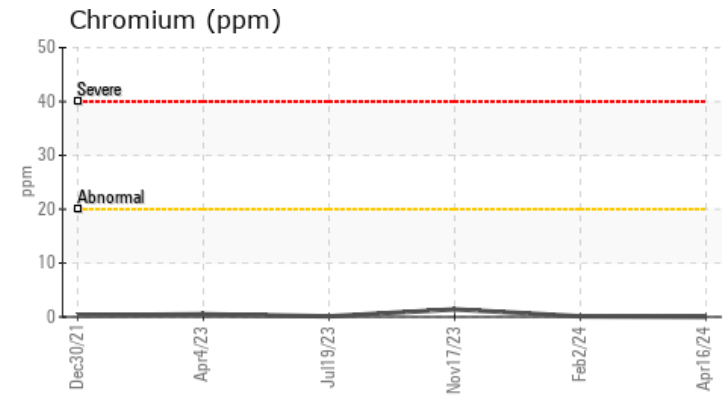
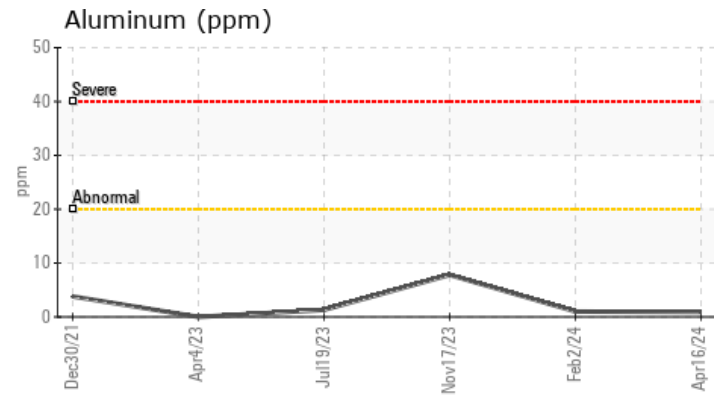
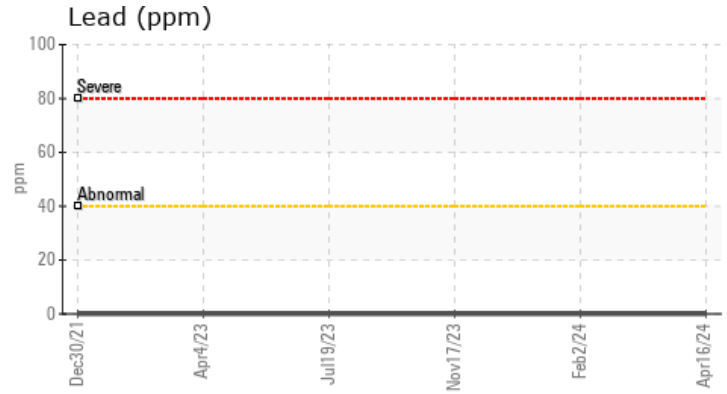
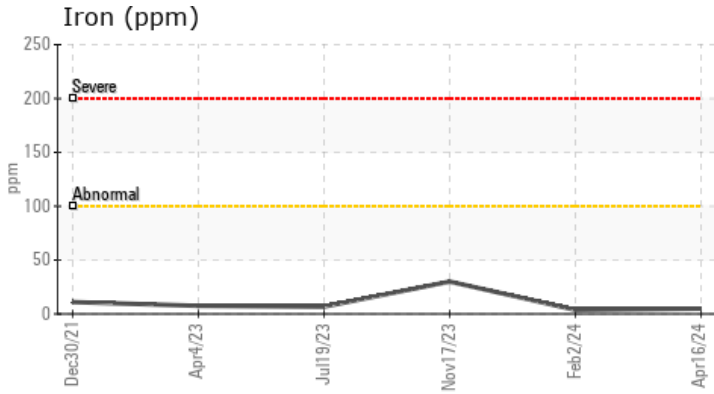
Depot: VOLVO8885
Unique No: 11003242
Signed: Wes Davis
Report Date: 29 Apr 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS





CONSTRUCTION EQUIPMENT

SPM702170 ALTER SB SENNEBOGEN 840E 840.0.2195 - HYDRAULIC SYSTEM



Sample No: VCP439223
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SPM702170 ALTER SB



SAMPLE INFORMATION

Sample Number	VCP439223	VCP392956	VCP299325	---
Sample Date	16 Apr 2024	04 Apr 2023	14 Jul 2021	---
Machine Hours	11148	8847	4095	---
Oil Hours	0	0	0	---
Oil Changed	Not Chngd	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 40°C	cSt	43.3	42.9	42.2	---
Acid Number (AN)	mg KOH/g	0.48	0.42	0.458	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		4946	3217	191	---
Particles >6µm		335	475	17	---
Particles >14µm		21	19	2	---
ISO 4406:1999 (c)		19/16/12	19/16/11	15/11/9	---
Silicon	ppm	<1	2	<1	---
Sodium	ppm	<1	0	<1	---
Potassium	ppm	0	<1	<1	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	0	2	2	---
Copper	ppm	<1	<1	<1	---
Lead	ppm	0	0	<1	---
Tin	ppm	<1	0	0	---
Aluminum	ppm	0	0	0	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	3	6	4	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	<1	---
Manganese	ppm	<1	0	0	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	125	144	267	---
Magnesium	ppm	30	42	20	---
Zinc	ppm	472	490	491	---
Phosphorus	ppm	385	390	374	---
Barium	ppm	0	0	0	---
Boron	ppm	5	10	7	---

Depot: VOLVO8885
Unique No: 11003481
Signed: Wes Davis
Report Date: 30 Apr 2024

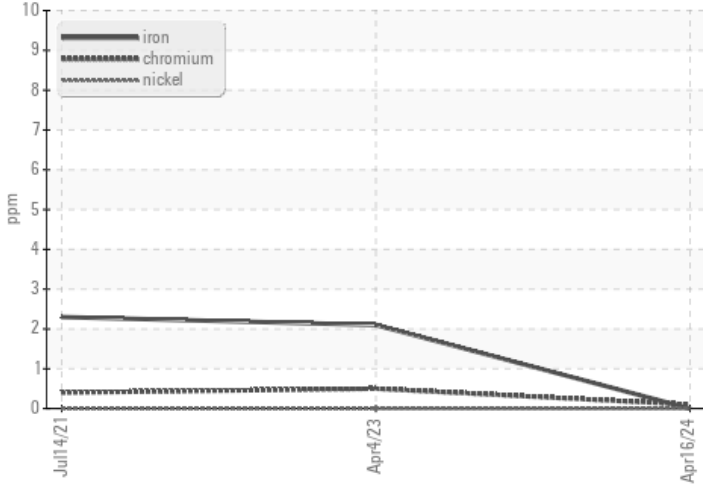


CONSTRUCTION EQUIPMENT

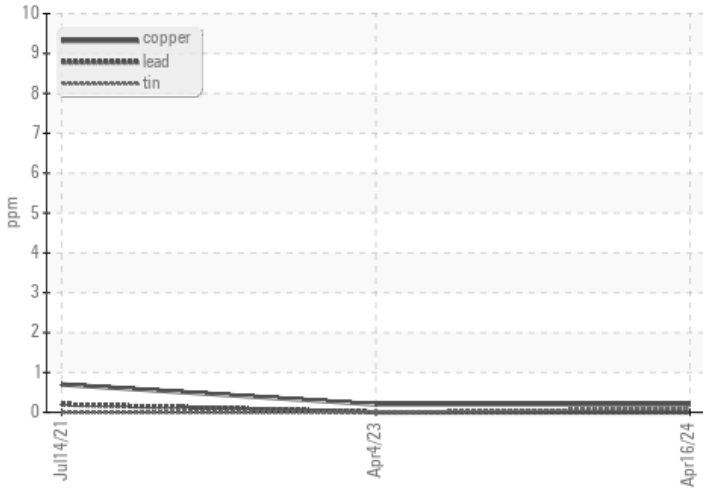


VOLVO GRAPHS

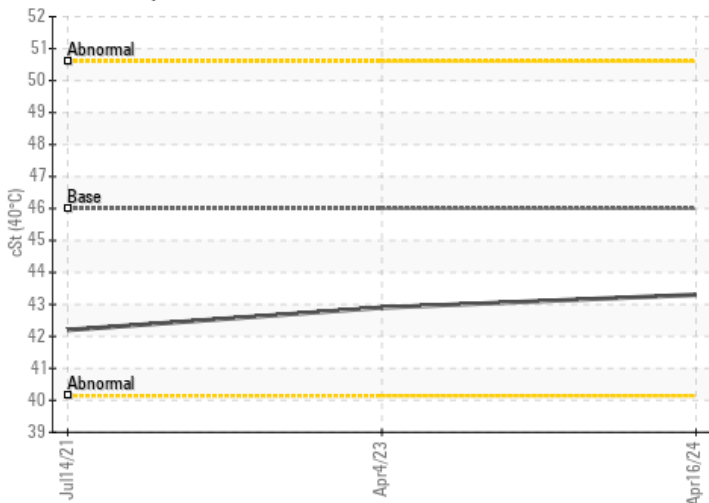
Ferrous Alloys



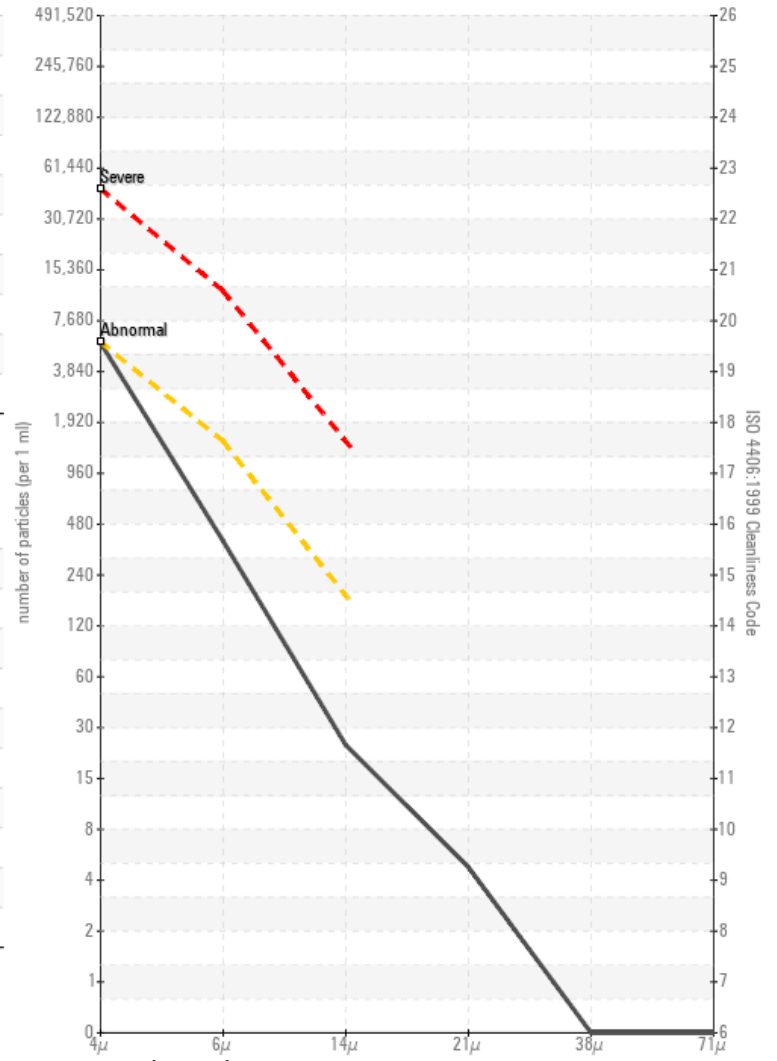
Non-ferrous Metals



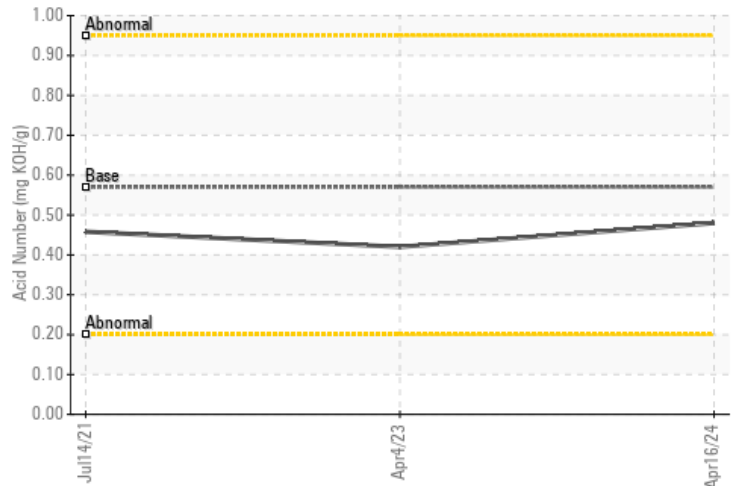
Viscosity @ 40°C



Particle Count



Acid Number



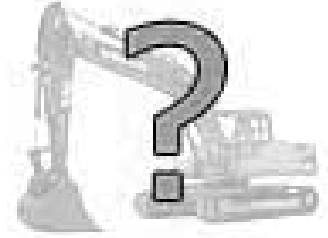


CONSTRUCTION EQUIPMENT

SPM702170 SENNEBOGEN 840E 840.O.2195 - LEFT SWING DRIVE



Sample No: VCP439228
Oil Type: GEAR OIL ISO 220
Job No: SPM702170



SAMPLE INFORMATION

Sample Number	VCP439228	VCP351984	---	---
Sample Date	16 Apr 2024	30 Dec 2021	---	---
Machine Hours	11148	5443	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

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F:



OIL CONDITION

Visc @ 40°C	cSt	█ 216	█ 224	---	---
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CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	█ 23	█ 20	---	---
Sodium	ppm	█ <1	█ 0	---	---
Potassium	ppm	█ 1	█ 0	---	---

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. 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	█ 143	█ 187	---	---
Copper	ppm	▲ 172	█ 19	---	---
Lead	ppm	█ 0	█ 0	---	---
Tin	ppm	█ 4	█ 4	---	---
Aluminum	ppm	█ 1	█ <1	---	---
Chromium	ppm	█ 2	█ 1	---	---
Molybdenum	ppm	█ <1	0	---	---
Nickel	ppm	█ <1	0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	█ 2	2	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	█ 217	0	---	---
Magnesium	ppm	█ 2	0	---	---
Zinc	ppm	█ 122	27	---	---
Phosphorus	ppm	█ 479	357	---	---
Barium	ppm	█ 1	0	---	---
Boron	ppm	█ 4	4	---	---

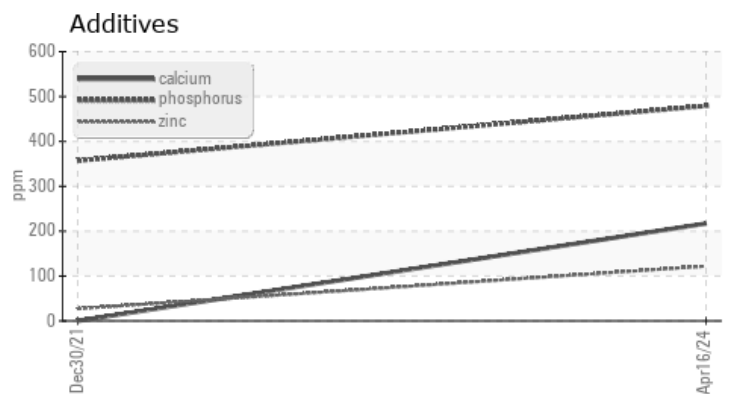
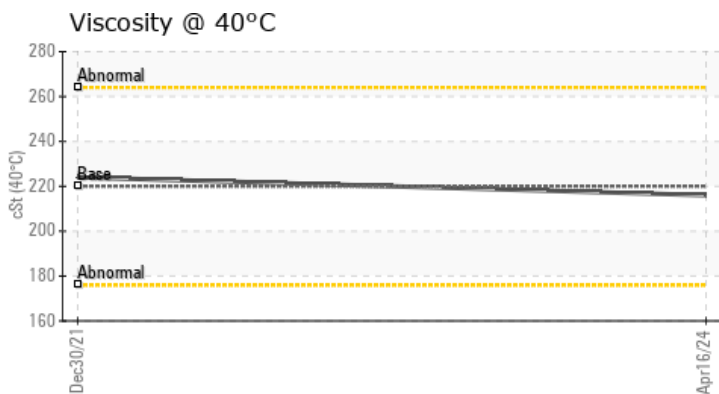
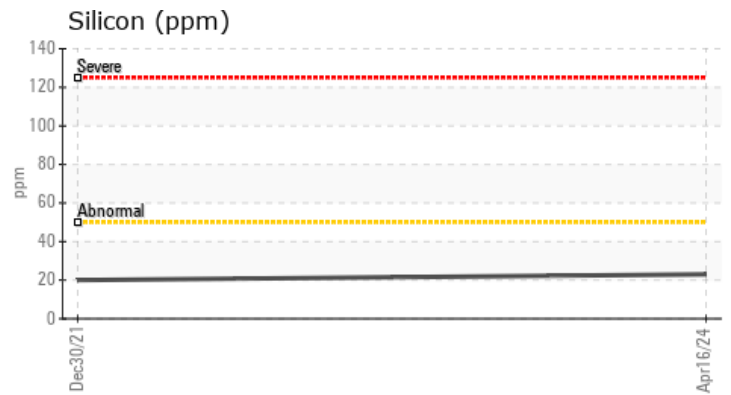
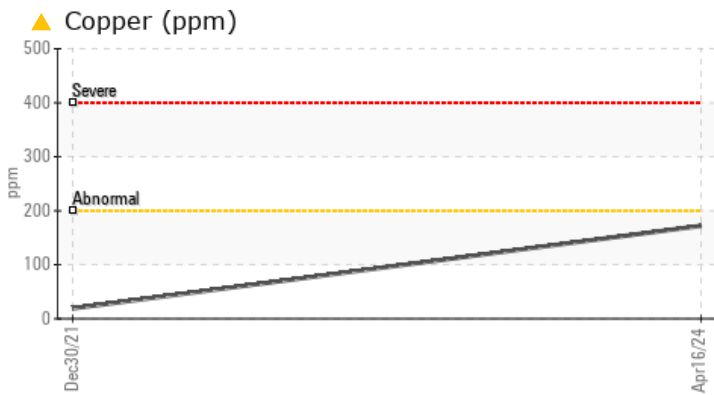
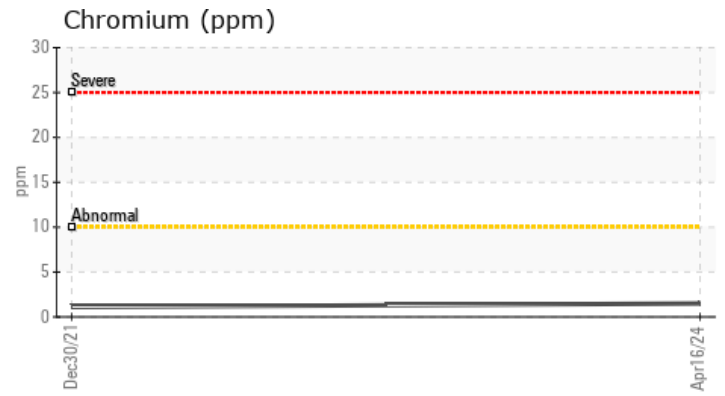
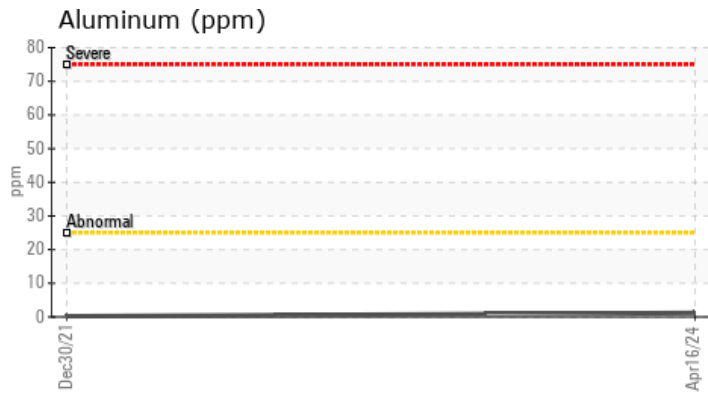
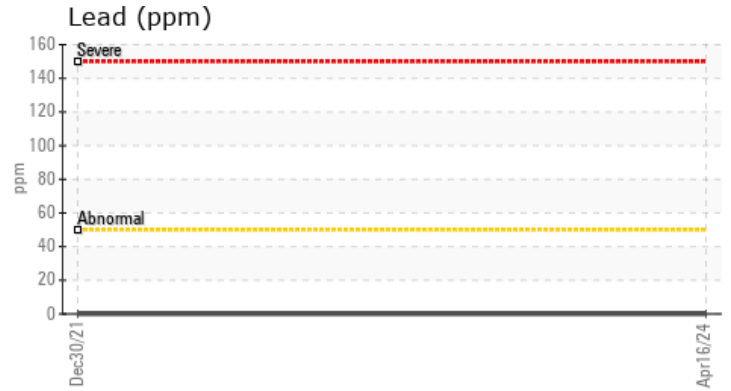
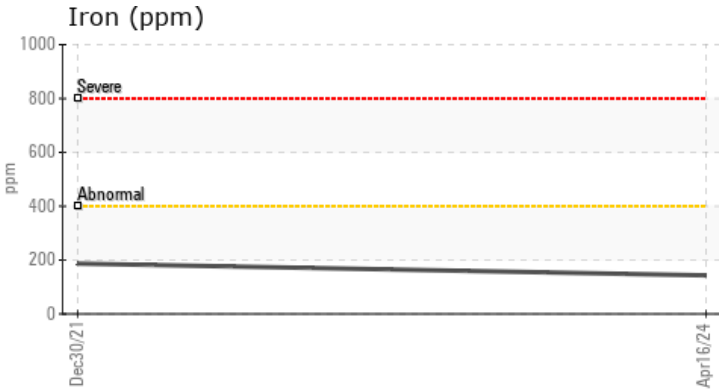
Depot: VOLV08885
Unique No: 11004022
Signed: Jonathan Hester
Report Date: 01 May 2024



CONSTRUCTION EQUIPMENT



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CONSTRUCTION EQUIPMENT

646398 ALTER S BELOI SENNEBOGEN 840E 840.0.2195 - SWING DRIVE



Sample No: VCP299367
Oil Type: {unknown}
Job No: 646398 ALTER S BELOI



SAMPLE INFORMATION

Sample Number	VCP299367	---	---	---
Sample Date	14 Jul 2021	---	---	---
Machine Hours	4095	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	■ 223	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	■ 20	---	---	---
Sodium	ppm	■ 0	---	---	---
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	■ 45	---	---	---
Copper	ppm	■ 4	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 0	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	<1	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	3	---	---	---
Magnesium	ppm	<1	---	---	---
Zinc	ppm	17	---	---	---
Phosphorus	ppm	390	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	6	---	---	---

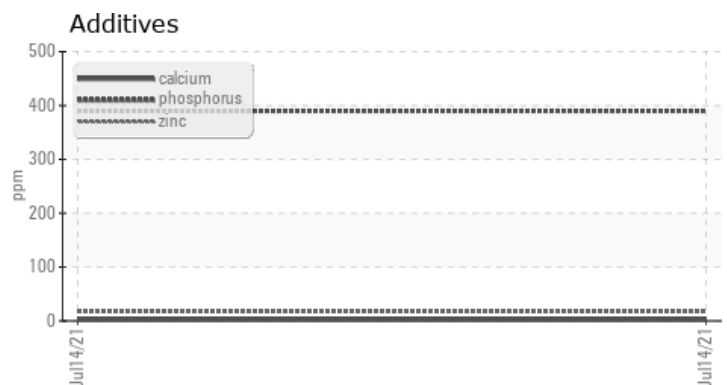
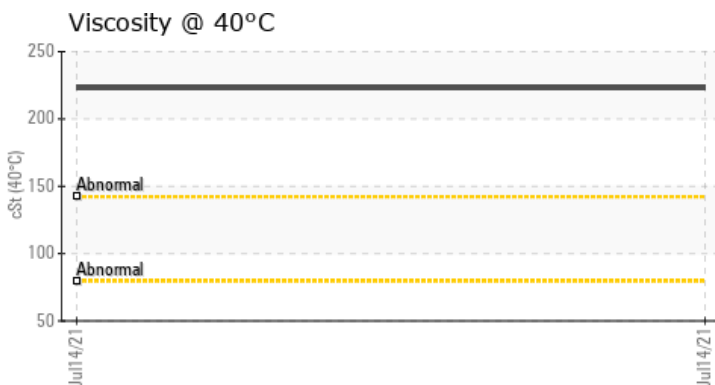
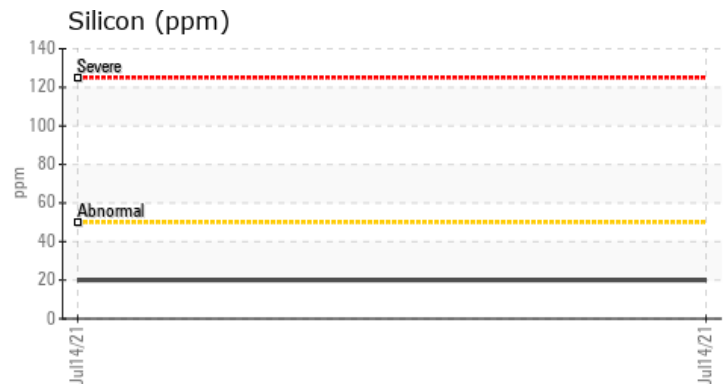
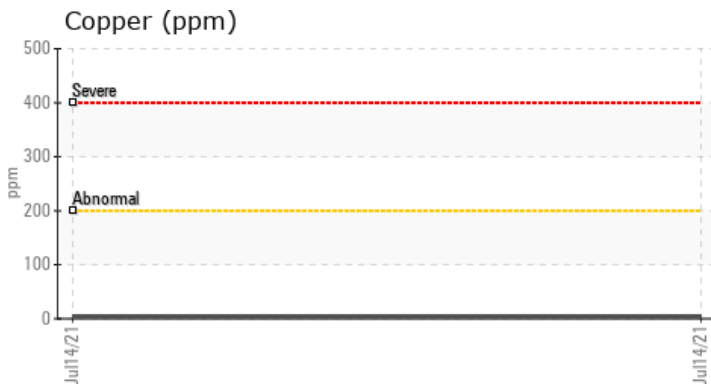
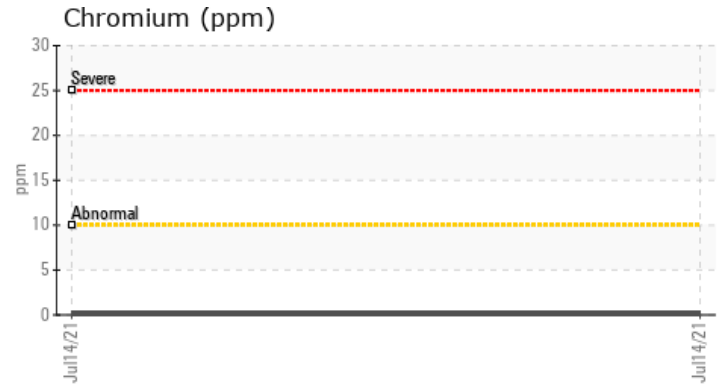
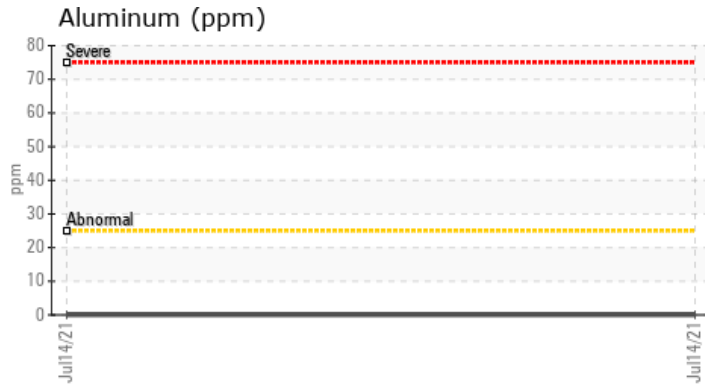
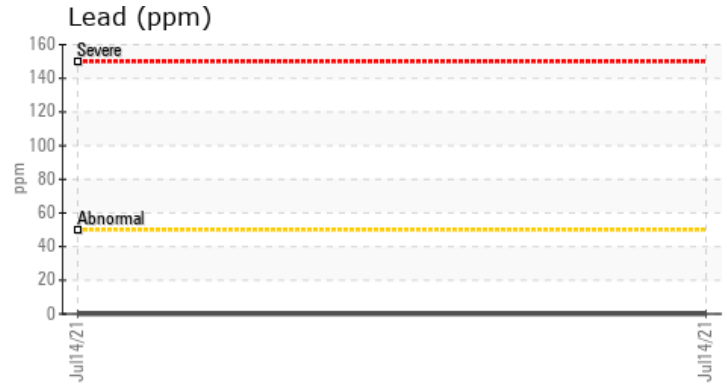
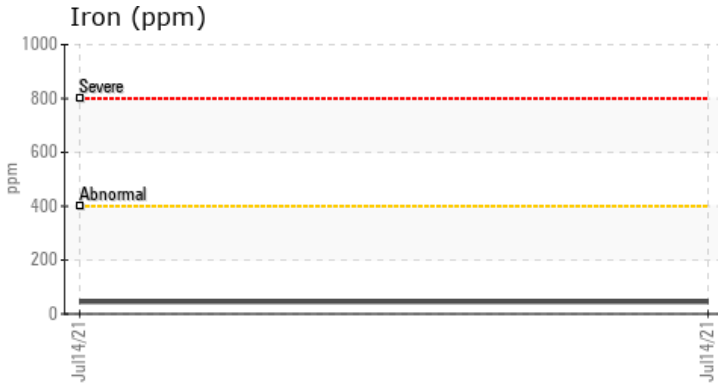
Depot: VOLVO8885
Unique No: 9669921
Signed: Don Baldrige
Report Date: 23 Sep 2021



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

SPM702170 ALTER S SENNEBOGEN 840E 840.0.2195 - RIGHT SWING DRIVE



Sample No: VCP439226
Oil Type: MOBIL SHC 630
Job No: SPM702170 ALTER S



SAMPLE INFORMATION

Sample Number	VCP439226	VCP396745	VCP351985	---
Sample Date	16 Apr 2024	04 Apr 2023	30 Dec 2021	---
Machine Hours	11148	8847	5443	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	N/A	---
Sample Status	ABNORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 40°C	cSt	215	217	227	---
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CONTAMINATION

Water	%	NEG	NEG	NEG	---
Silicon	ppm	▲ 61	24	20	---
Sodium	ppm	2	<1	0	---
Potassium	ppm	4	<1	0	---

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The condition of the oil is acceptable for the time in service.

WEAR METALS

Iron	ppm	241	157	38	---
Copper	ppm	▲ 185	23	6	---
Lead	ppm	<1	0	0	---
Tin	ppm	6	3	<1	---
Aluminum	ppm	7	<1	0	---
Chromium	ppm	3	1	<1	---
Molybdenum	ppm	<1	<1	0	---
Nickel	ppm	<1	<1	0	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	2	1	<1	---
Vanadium	ppm	<1	0	0	---

ADDITIVES

Calcium	ppm	192	7	0	---
Magnesium	ppm	2	<1	0	---
Zinc	ppm	98	45	15	---
Phosphorus	ppm	485	453	345	---
Barium	ppm	1	0	0	---
Boron	ppm	7	<1	5	---

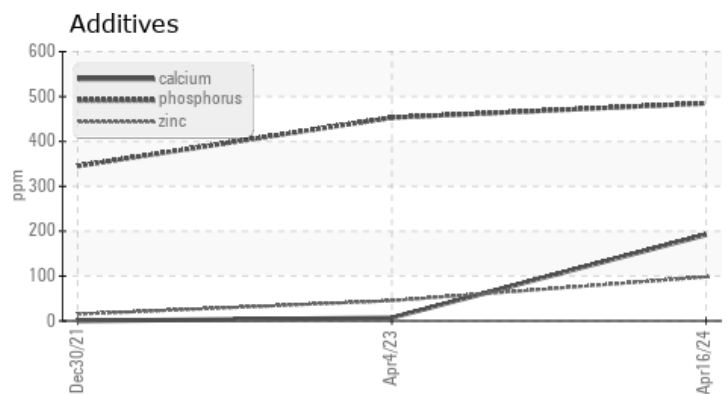
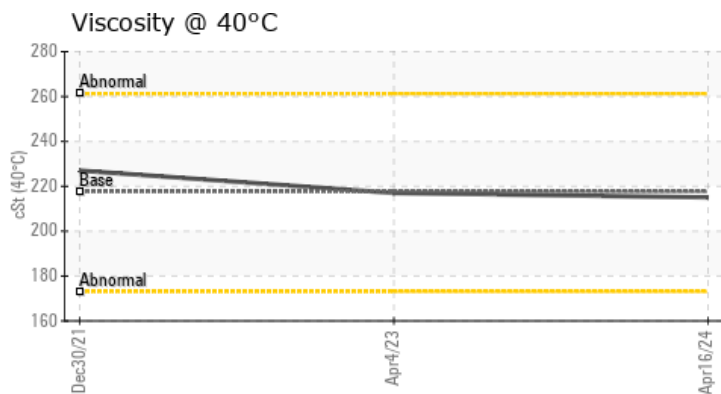
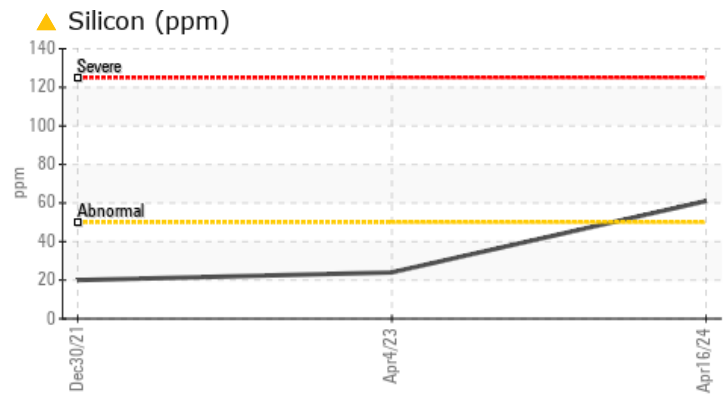
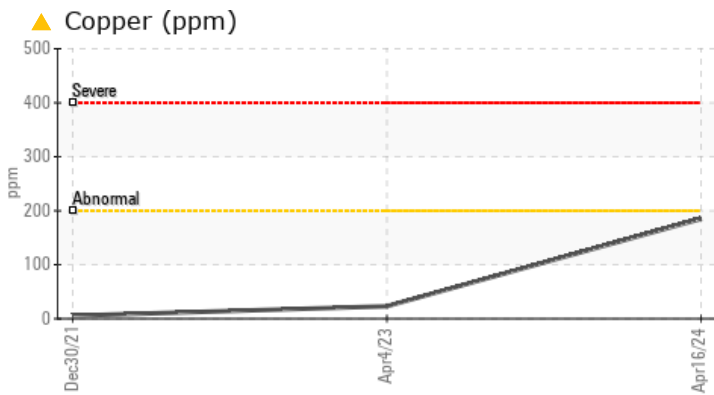
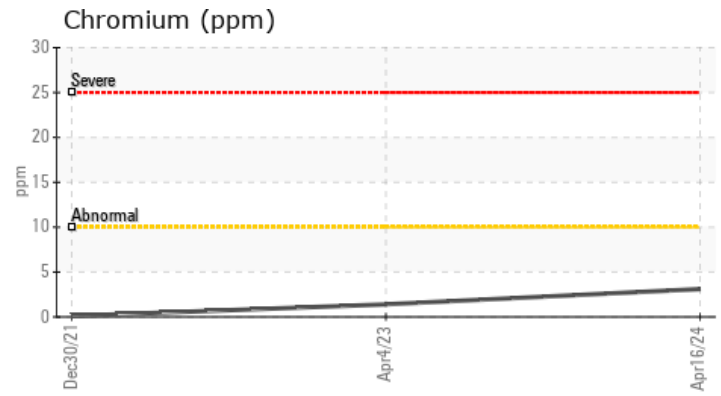
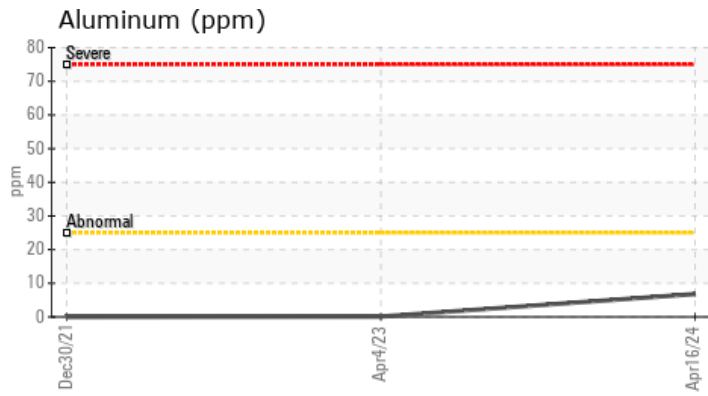
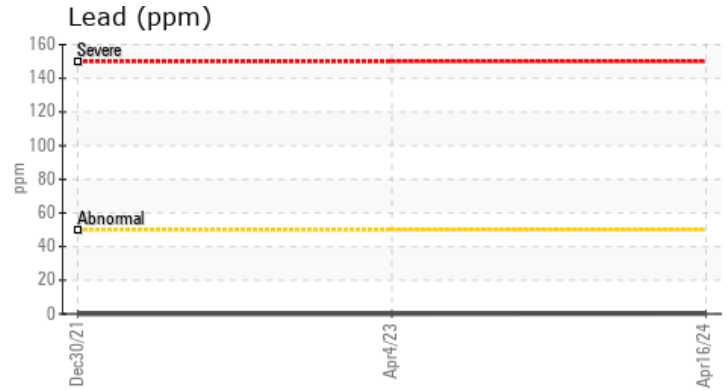
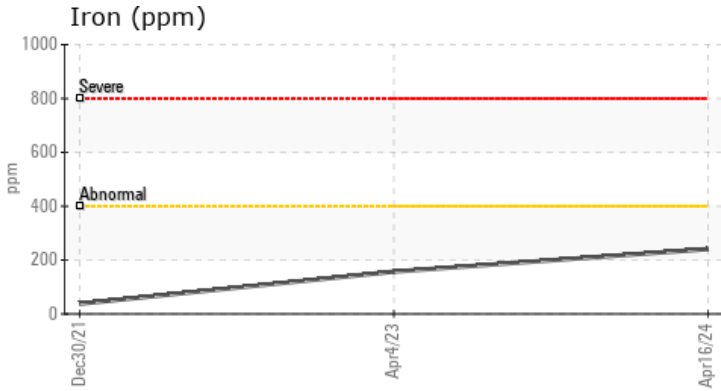
Depot: VOLVO8885
Unique No: 11004017
Signed: Jonathan Hester
Report Date: 01 May 2024



CONSTRUCTION EQUIPMENT



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CONSTRUCTION EQUIPMENT

SPM702170 ALTER S SENNEBOGEN 840E 840.0.2195 - FRONT LEFT FINAL DRIVE



Sample No: VCP367133
Oil Type: GEAR OIL SAE 80W90
Job No: SPM702170 ALTER S



SAMPLE INFORMATION

Sample Number	VCP367133	VCP433824	VCP387192	VCP351986
Sample Date	16 Apr 2024	17 Nov 2023	04 Apr 2023	30 Dec 2021
Machine Hours	11148	10000	8847	5443
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	141	143	150	154
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	3	2	5	2
Sodium	ppm	1	2	0	0
Potassium	ppm	1	2	<1	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	19	20	23	2
Copper	ppm	1	1	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	1	0	0	<1
Chromium	ppm	<1	0	<1	0
Molybdenum	ppm	<1	0	0	0
Nickel	ppm	<1	0	<1	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	0
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	29	4	14	<1
Magnesium	ppm	2	0	<1	0
Zinc	ppm	15	3	20	6
Phosphorus	ppm	738	1116	2125	1922
Barium	ppm	1	0	0	0
Boron	ppm	30	63	118	187

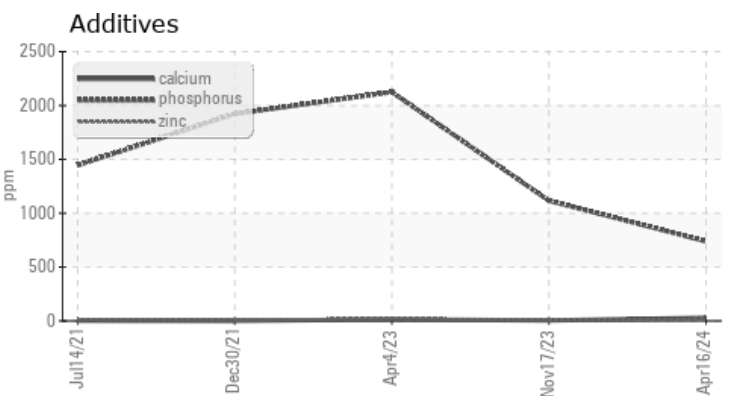
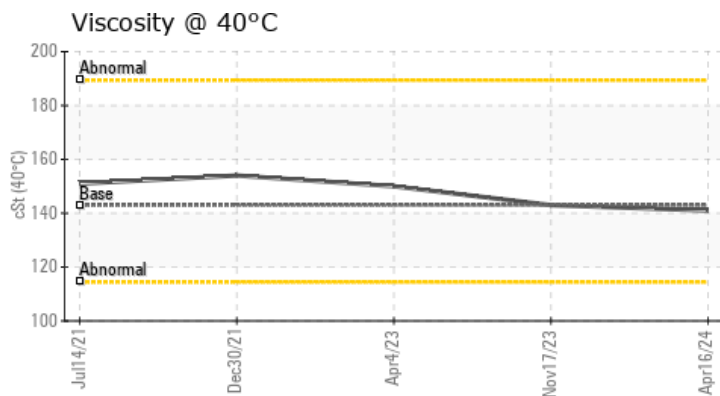
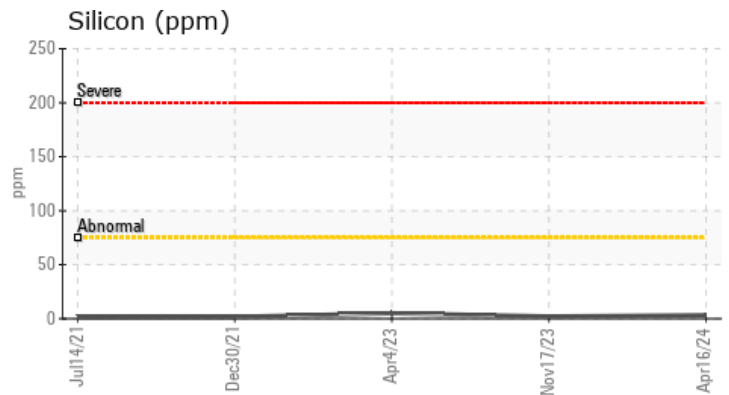
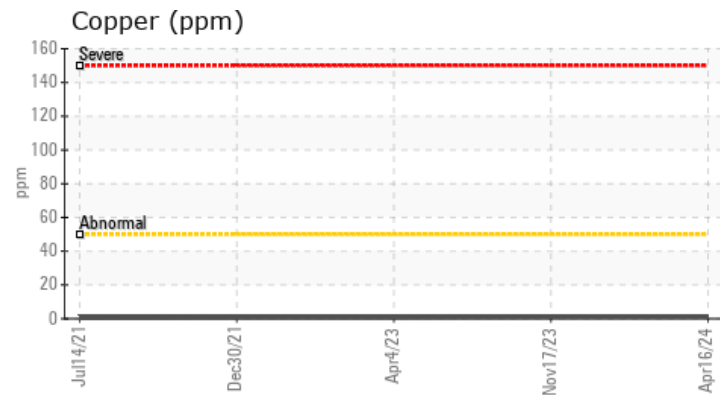
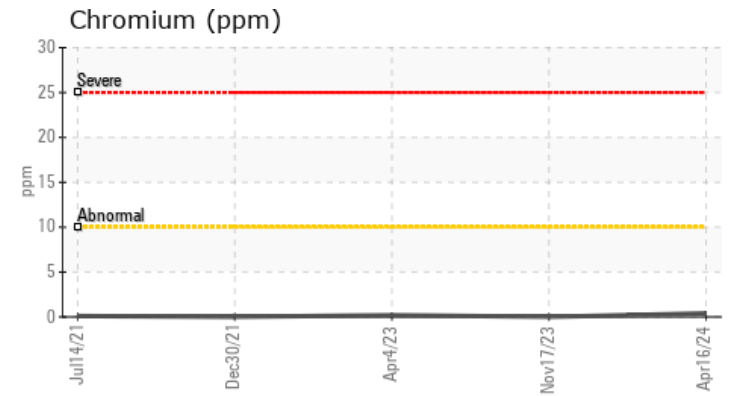
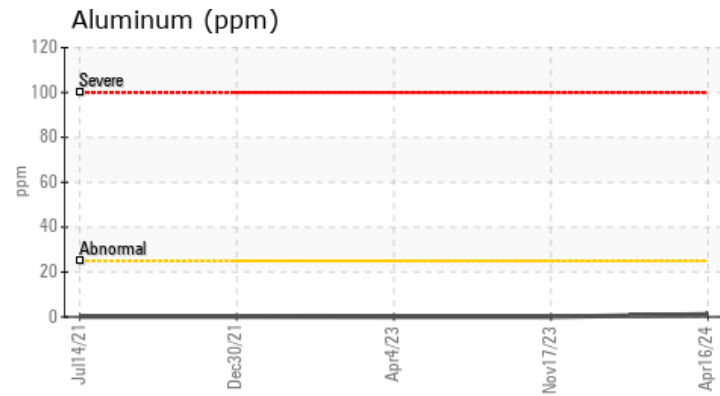
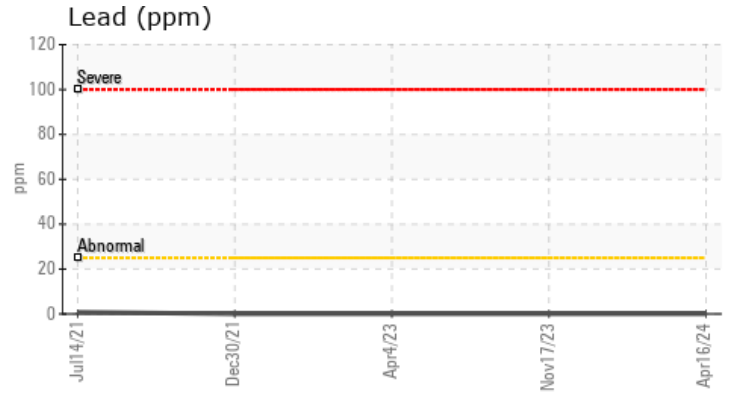
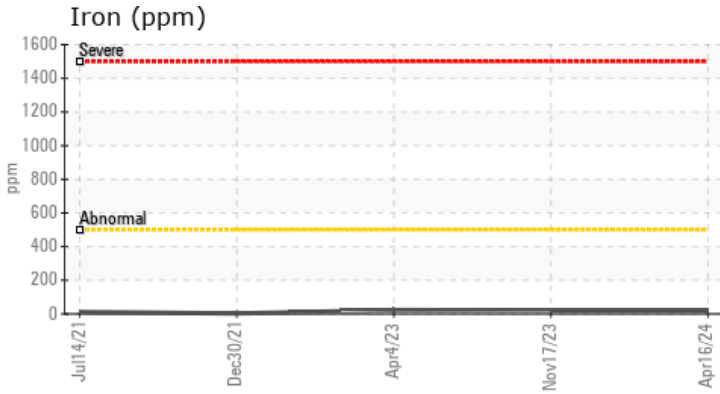
Depot: VOLVO8885
Unique No: 11004021
Signed: Wes Davis
Report Date: 30 Apr 2024



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

SPM702170 ALTER S SENNEBOGEN 840E 840.0.2195 - FRONT AXLE



Sample No: VCP439230
Oil Type: GEAR OIL SAE 80W90
Job No: SPM702170 ALTER S



SAMPLE INFORMATION

Sample Number	VCP439230	VCP433823	VCP05820526	VCP351982
Sample Date	16 Apr 2024	27 Nov 2023	04 Apr 2023	30 Dec 2021
Machine Hours	11148	10000	8847	5443
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT CO - ORLAND PARK
 5000 INDUSTRIAL HWY
 GARY, IN
 US 46406
 Contact: DAVE ENG
 DAVE.ENG@ALTG.COM
 T: (312)350-2560
 F:



OIL CONDITION

Visc @ 40°C	cSt	142	147	147	154
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	4	3	4	2
Sodium	ppm	2	2	0	0
Potassium	ppm	1	4	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	6	0	2	13
Copper	ppm	2	2	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	1	0	0	<1
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	<1	0	0	0
Nickel	ppm	<1	0	<1	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	0	<1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	14	0	0	3
Magnesium	ppm	2	0	<1	0
Zinc	ppm	10	0	1	7
Phosphorus	ppm	1021	2074	2193	1880
Barium	ppm	1	0	0	0
Boron	ppm	40	177	165	182

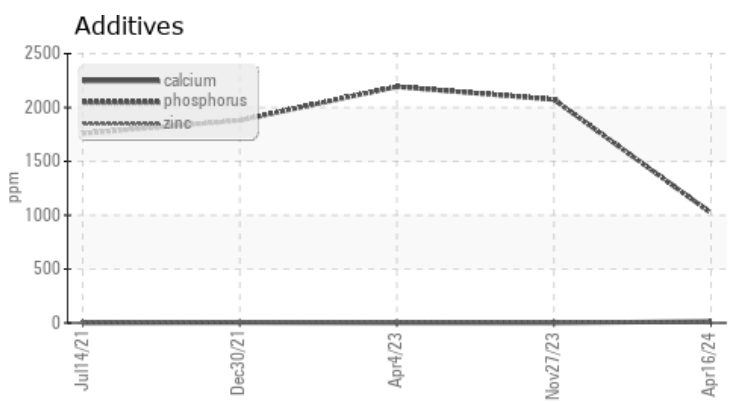
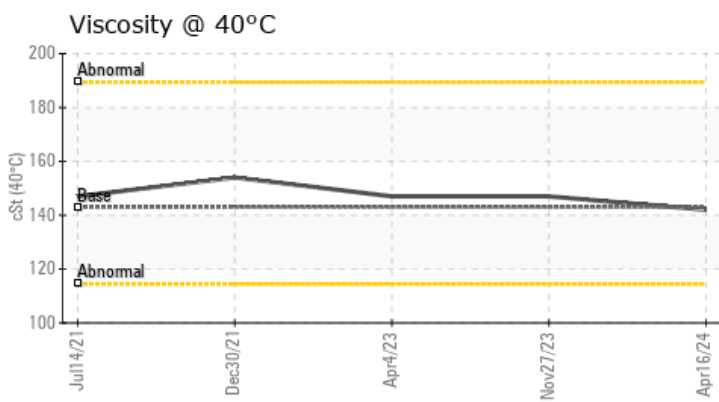
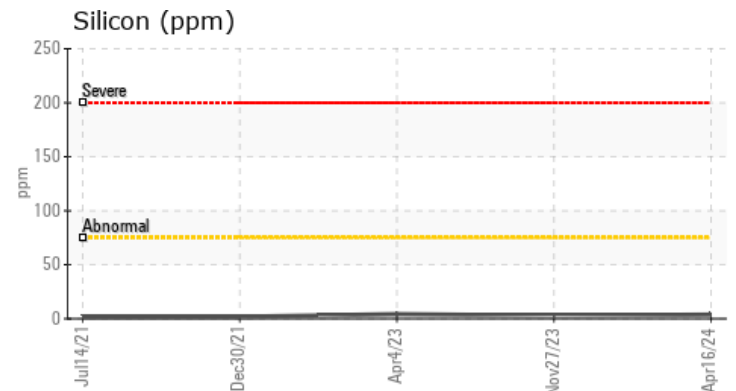
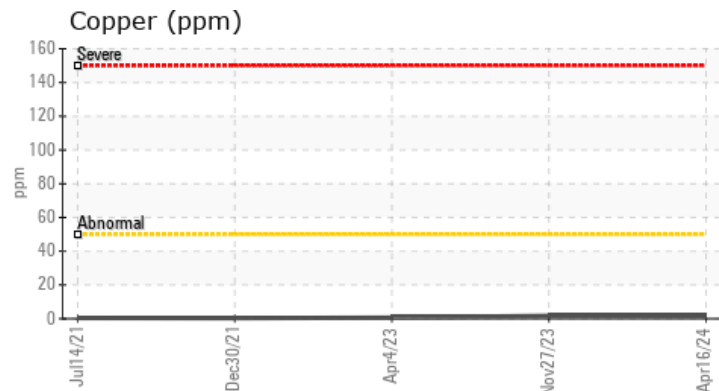
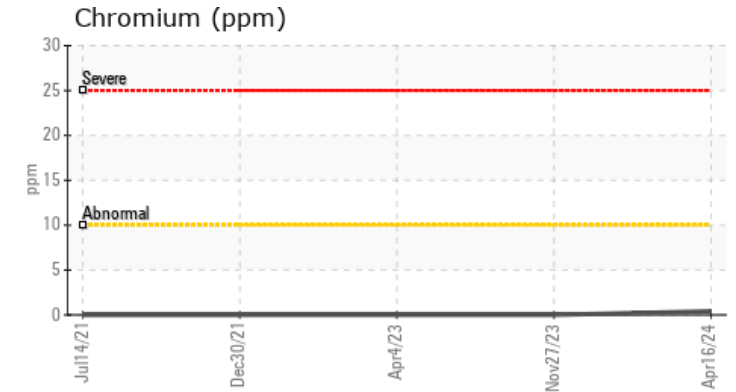
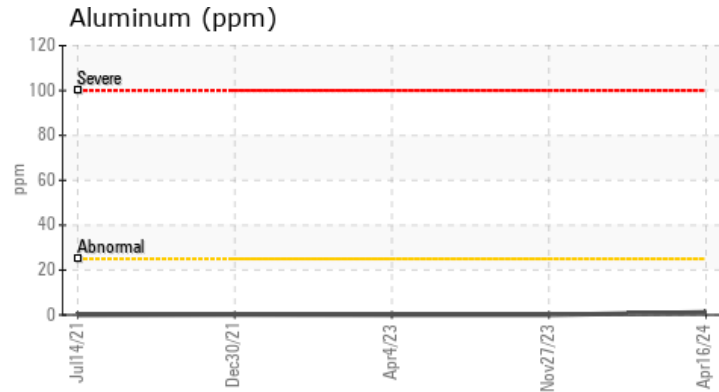
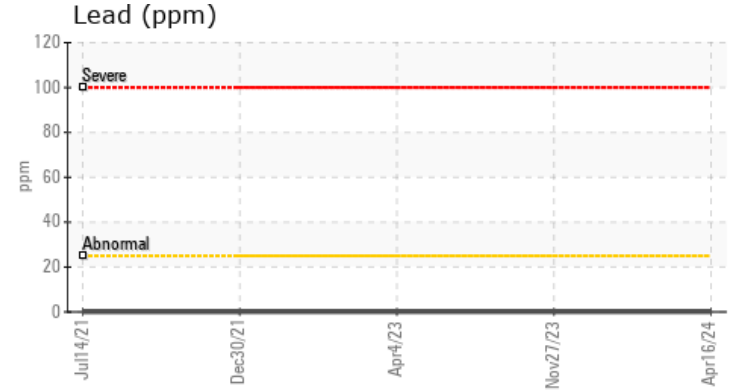
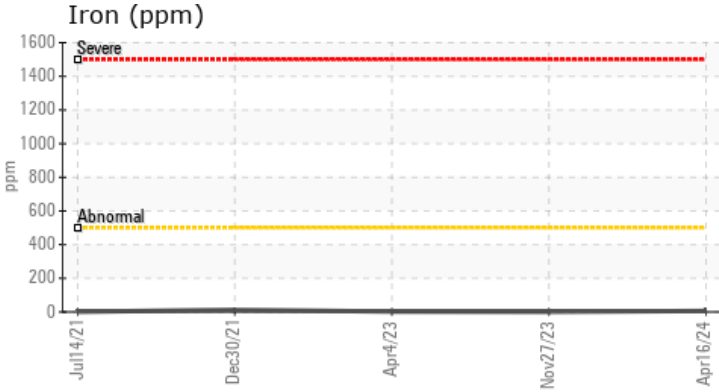
Depot: VOLVO8885
Unique No: 11004024
Signed: Wes Davis
Report Date: 30 Apr 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS





CONSTRUCTION EQUIPMENT

SPM702170 ALTER S SENNEBOGEN 840E 840.0.2195 - FRONT RIGHT FINAL DRIVE



Sample No: VCP439227
Oil Type: GEAR OIL SAE 80W90
Job No: SPM702170 ALTER S



SAMPLE INFORMATION

Sample Number	VCP439227	VCP433826	VCP396503	VCP351983
Sample Date	16 Apr 2024	17 Nov 2023	04 Apr 2023	30 Dec 2021
Machine Hours	11148	10000	8847	5443
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT CO - ORLAND PARK
5000 INDUSTRIAL HWY
GARY, IN
US 46406
Contact: MARK DEROSA
mark.derosa@altg.com
T: (248)356-5200
F:

OIL CONDITION

Visc @ 40°C	cSt	144	143	149	152
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	11	2	4	3
Sodium	ppm	1	2	<1	0
Potassium	ppm	1	2	<1	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	28	14	21	15
Copper	ppm	4	<1	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	2	0	0	<1
Chromium	ppm	<1	0	<1	0
Molybdenum	ppm	<1	0	0	0
Nickel	ppm	<1	0	<1	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	<1	<1	0	0

ADDITIVES

Calcium	ppm	19	4	2	0
Magnesium	ppm	2	0	<1	0
Zinc	ppm	12	3	9	6
Phosphorus	ppm	666	1174	2051	1969
Barium	ppm	1	0	0	0
Boron	ppm	21	73	119	193

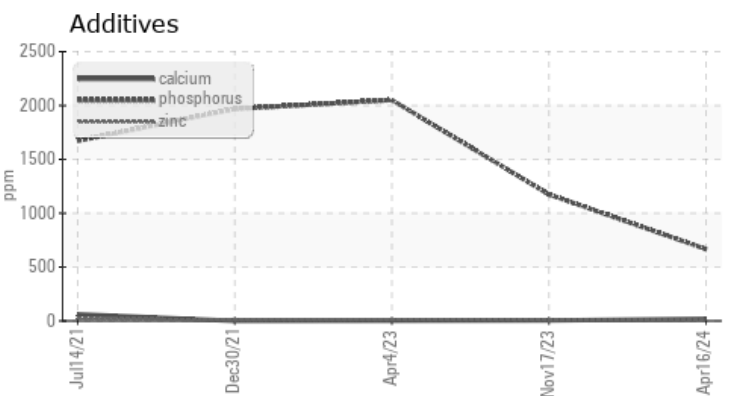
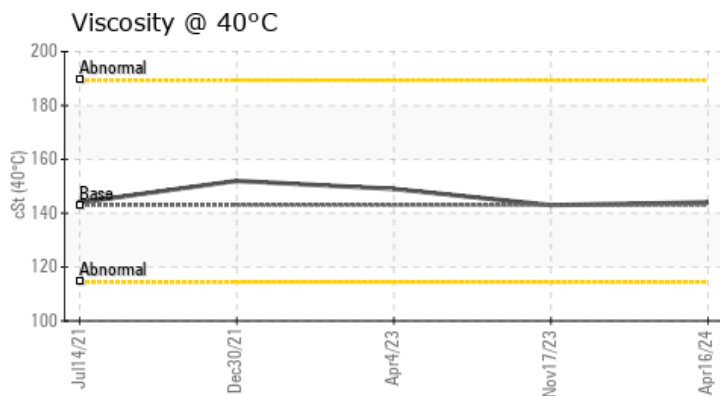
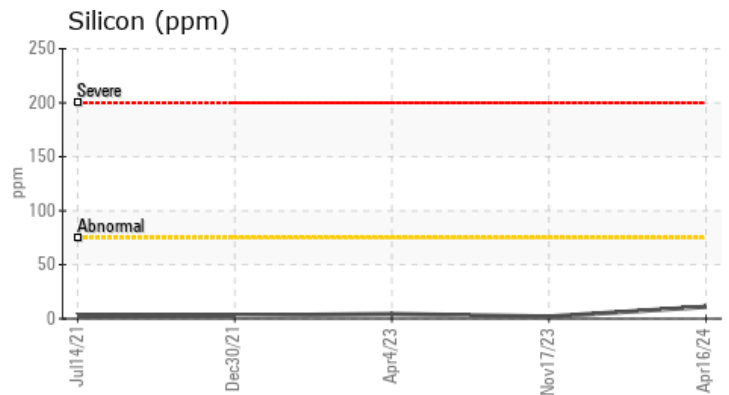
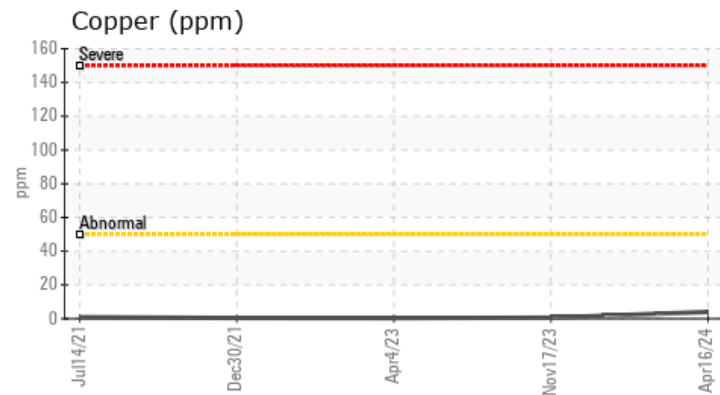
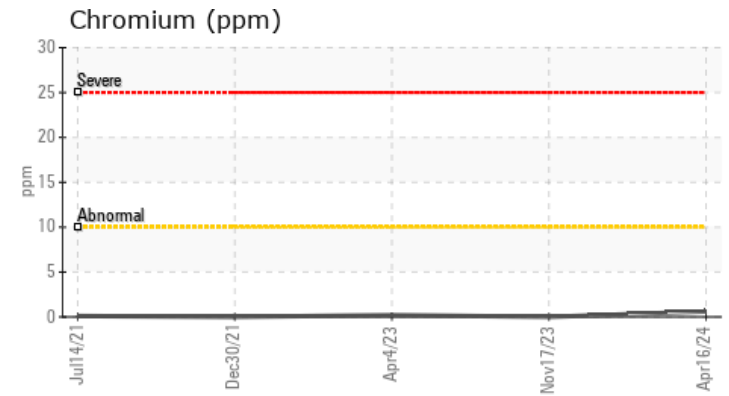
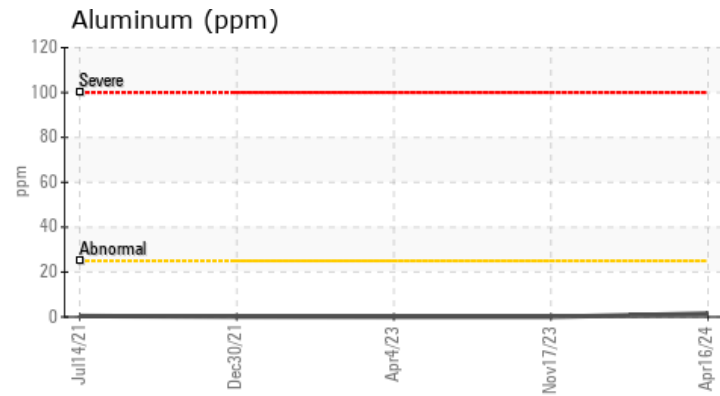
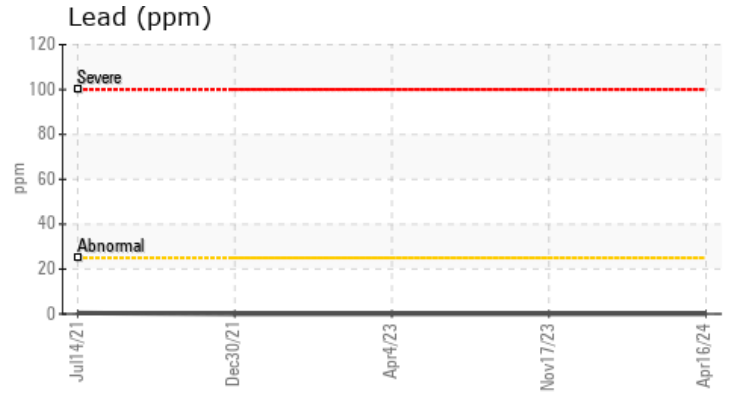
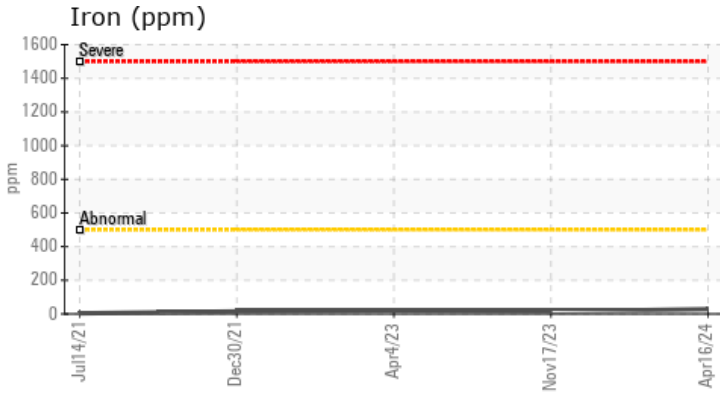
Depot: VOLVO8885
Unique No: 11004018
Signed: Wes Davis
Report Date: 30 Apr 2024



CONSTRUCTION EQUIPMENT



GRAPHS



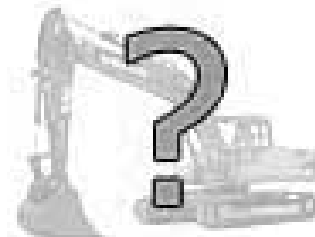


CONSTRUCTION EQUIPMENT

SWA221086 ALT BELOIT SENNEBOGEN 840E 840.0.2195 - LEFT GEARBOX



Sample No: VCP399530
Oil Type: MOBIL SHC 630
Job No: SWA221086 ALT BELOIT



SAMPLE INFORMATION

Sample Number	VCP399530	---	---	---
Sample Date	04 Apr 2023	---	---	---
Machine Hours	8847	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

ALTA EQUIPMENT CO - ORLAND PARK
5000 INDUSTRIAL HWY
GARY, IN
US 46406
Contact: DAVE ENG
DAVE.ENG@ALTG.COM
T: (312)350-2560
F:



OIL CONDITION

Visc @ 40°C	cSt	█ 220	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 24	---	---	---
Sodium	ppm	█ <1	---	---	---
Potassium	ppm	█ <1	---	---	---

Diagnosis

The oil 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. Gear wear is indicated. All other 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	▲ 381	---	---	---
Copper	ppm	█ 60	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 8	---	---	---
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	█ 2	---	---	---
Magnesium	ppm	█ <1	---	---	---
Zinc	ppm	█ 50	---	---	---
Phosphorus	ppm	█ 465	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 2	---	---	---

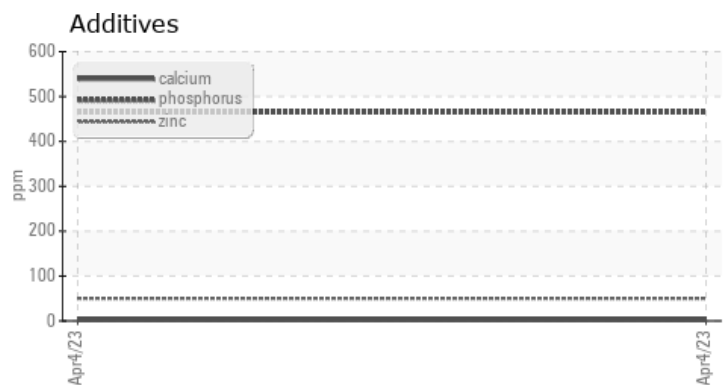
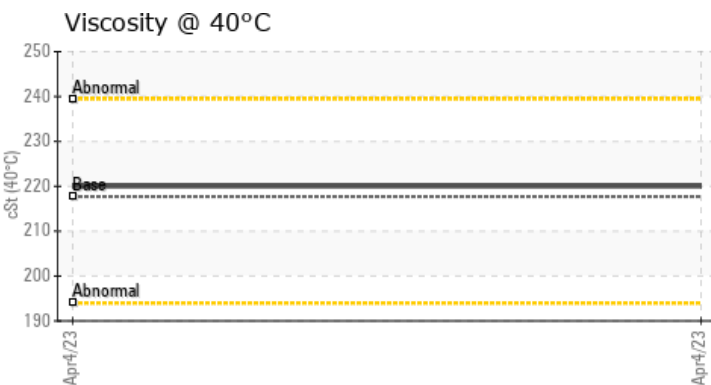
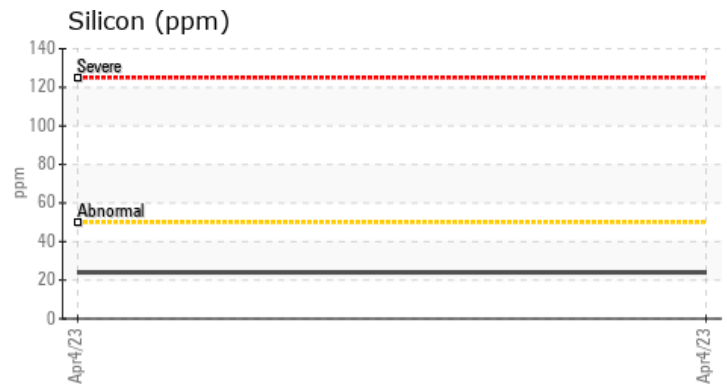
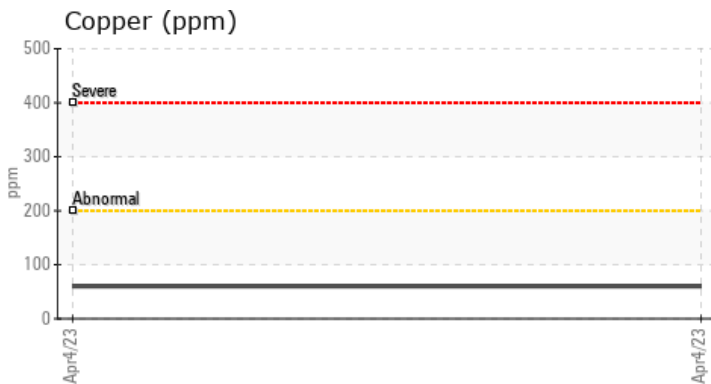
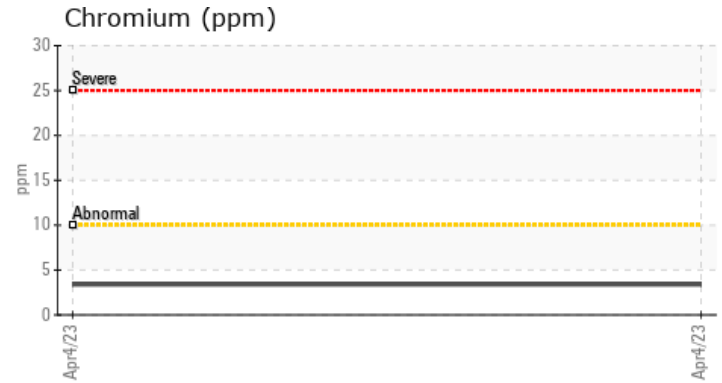
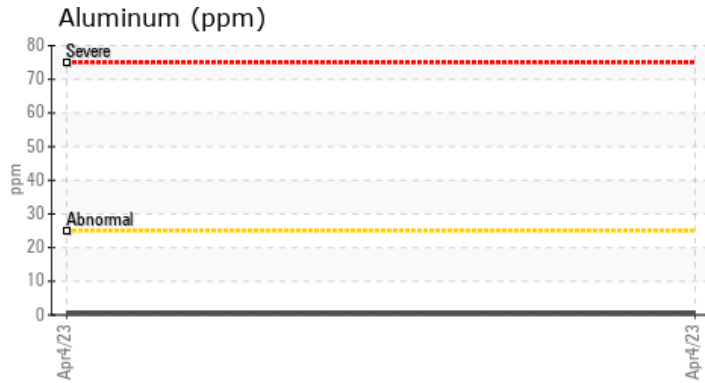
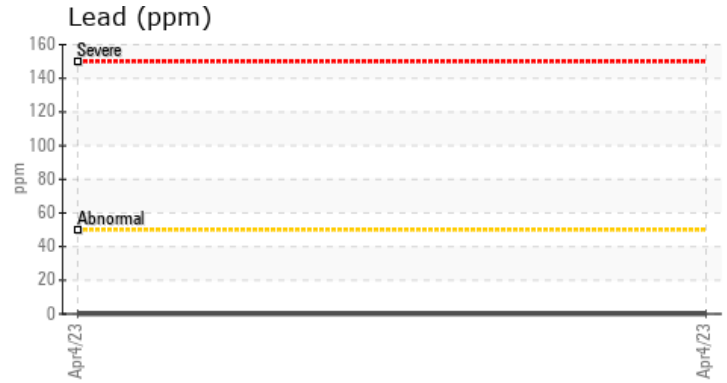
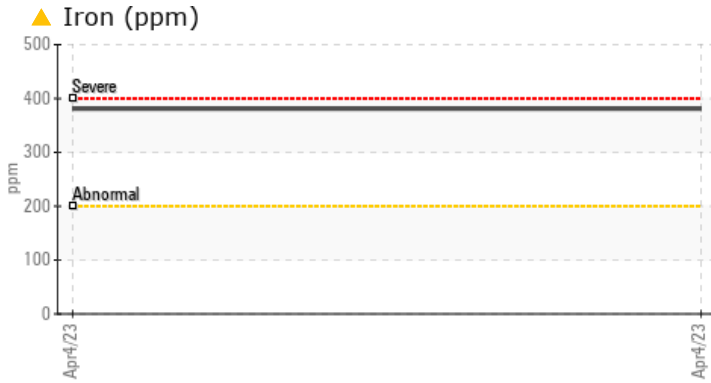
Depot: VOLVO8885
Unique No: 10428605
Signed: Don Baldrige
Report Date: 17 Apr 2023



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

SPM702170 ALTER S SENNEBOGEN 840E 840.0.2195 - REAR LEFT FINAL DRIVE



Sample No: VCP367137
Oil Type: GEAR OIL SAE 80W90
Job No: SPM702170 ALTER S



SAMPLE INFORMATION

Sample Number	VCP367137	VCP433819	VCP399574	VCP351990
Sample Date	16 Apr 2024	17 Nov 2023	04 Apr 2023	30 Dec 2021
Machine Hours	11148	10000	8847	5443
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT CO - ORLAND PARK
 5000 INDUSTRIAL HWY
 GARY, IN
 US 46406
 Contact: DAVE ENG
 DAVE.ENG@ALTG.COM
 T: (312)350-2560
 F:



OIL CONDITION

Visc @ 40°C	cSt	141	144	147	149
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CONTAMINATION

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



ADDITIVES

Calcium	ppm	11	0	<1	<1
Magnesium	ppm	1	0	0	0
Zinc	ppm	7	<1	2	6
Phosphorus	ppm	658	1920	2168	1921
Barium	ppm	1	0	0	0
Boron	ppm	25	162	166	186

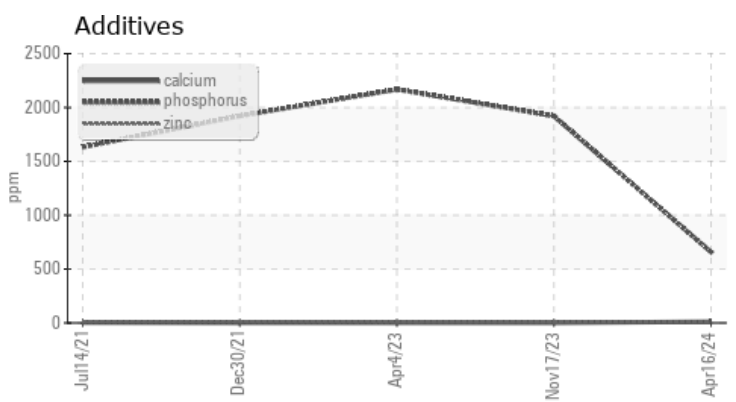
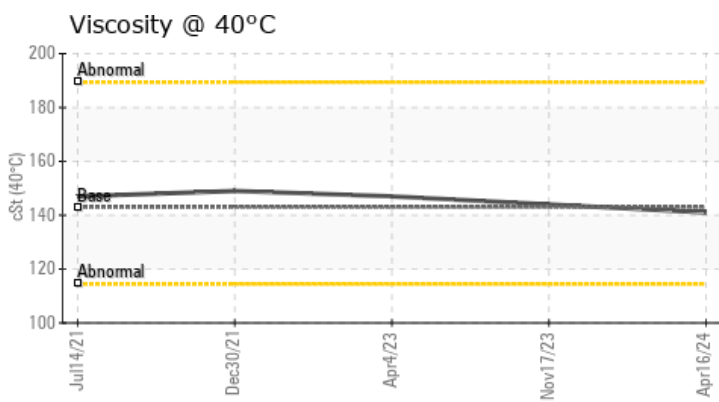
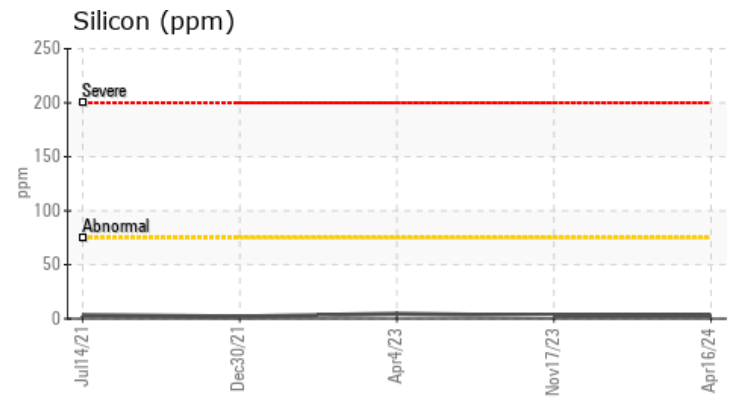
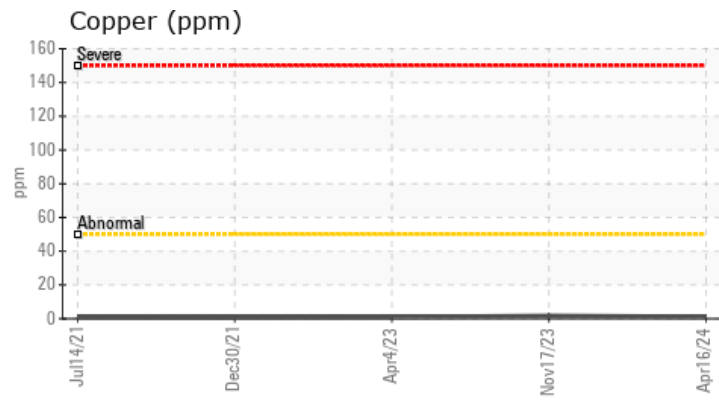
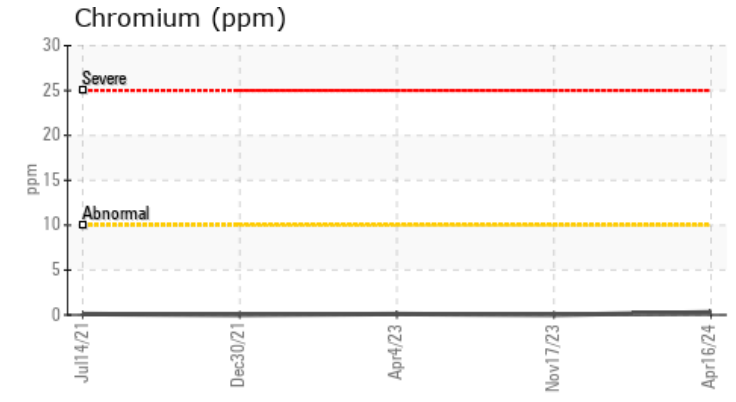
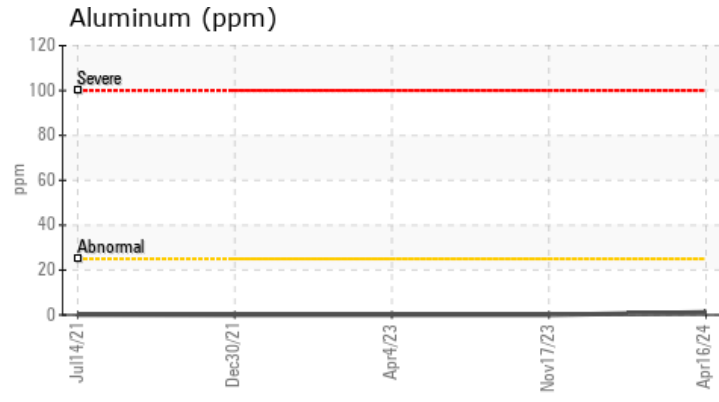
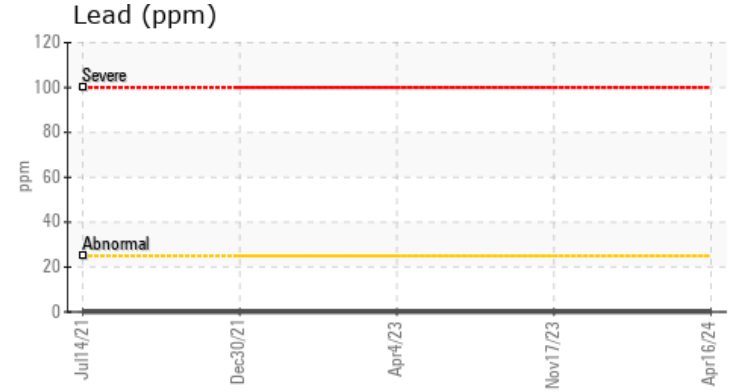
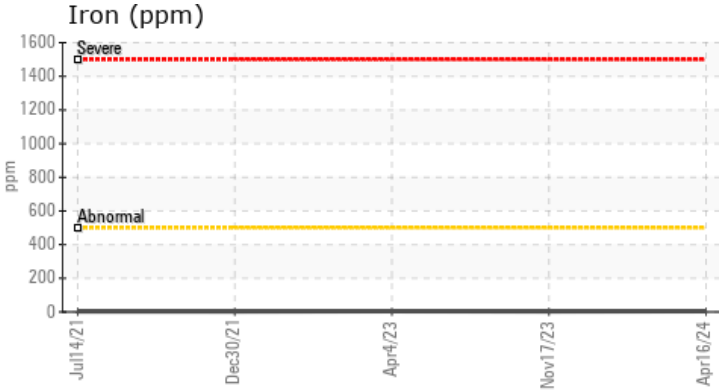
Depot: VOLVO8885
Unique No: 11004028
Signed: Wes Davis
Report Date: 30 Apr 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS





CONSTRUCTION EQUIPMENT

SPM702148 ALTER S SENNEBOGEN 840E 840.0.2195 - REAR AXLE



Sample No: VCP367135
Oil Type: GEAR OIL SAE 80W90
Job No: SPM702148 ALTER S



SAMPLE INFORMATION

Sample Number	VCP367135	VCP433822	VCP399541	VCP351987
Sample Date	16 Apr 2024	17 Nov 2023	04 Apr 2023	30 Dec 2021
Machine Hours	11148	10000	8847	5443
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT CO - ORLAND PARK
 5000 INDUSTRIAL HWY
 GARY, IN
 US 46406
 Contact: MARK DEROSA
 mark.derosa@altg.com
 T: (248)356-5200
 F:



OIL CONDITION

Visc @ 40°C	cSt	143	145	148	150
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	3	3	4	2
Sodium	ppm	<1	2	0	0
Potassium	ppm	1	3	<1	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	3	4	5
Copper	ppm	1	2	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	1	0	0	<1
Chromium	ppm	<1	0	<1	0
Molybdenum	ppm	<1	0	0	<1
Nickel	ppm	<1	0	<1	0
Titanium	ppm	<1	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	11	41	0	47
Magnesium	ppm	2	0	<1	0
Zinc	ppm	8	22	1	29
Phosphorus	ppm	656	1930	2181	1909
Barium	ppm	1	0	0	0
Boron	ppm	24	158	163	186

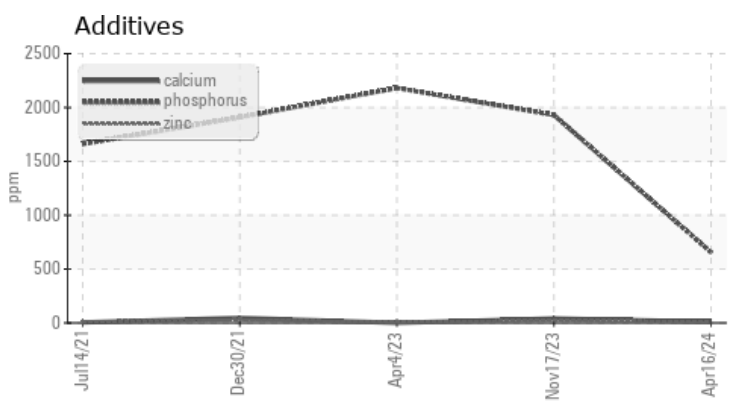
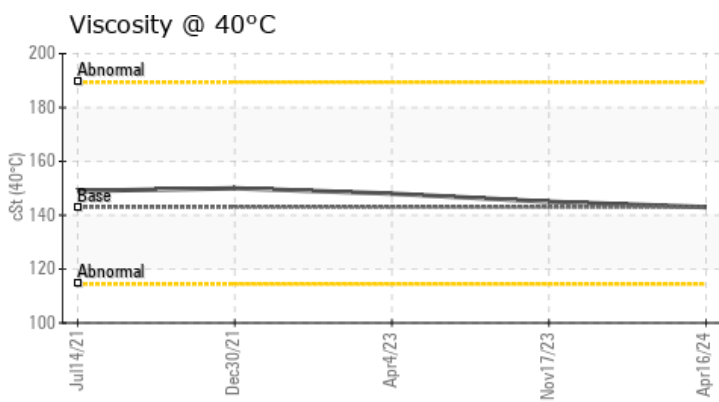
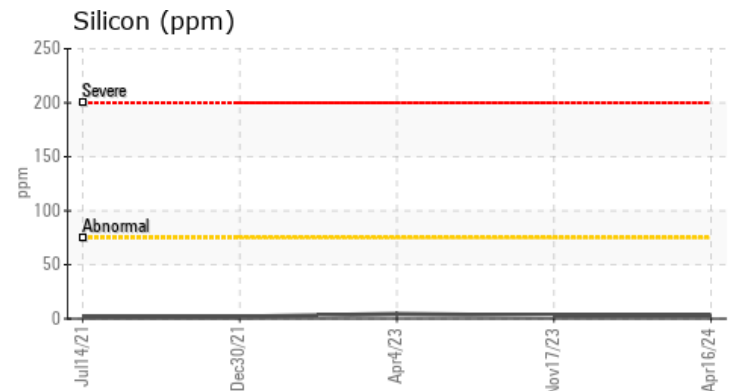
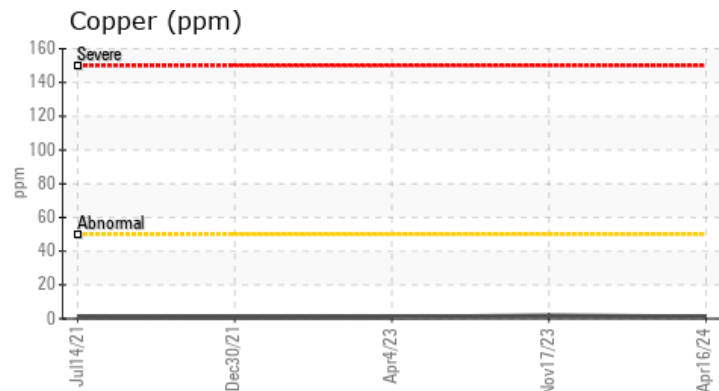
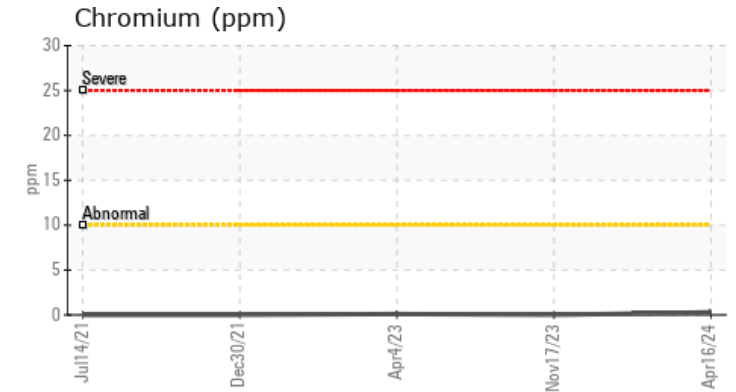
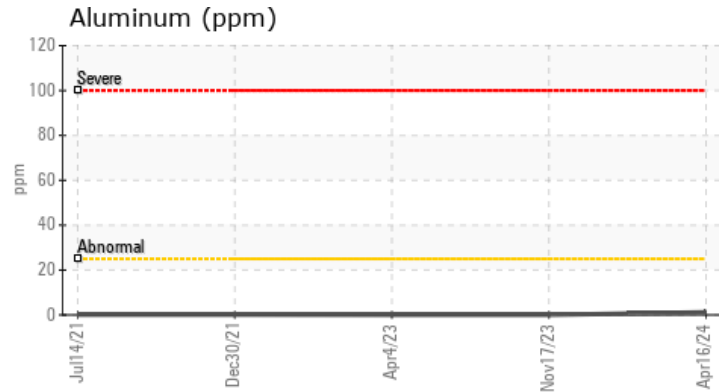
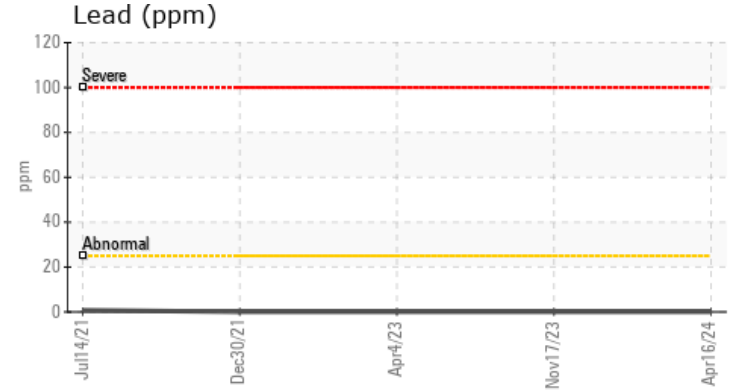
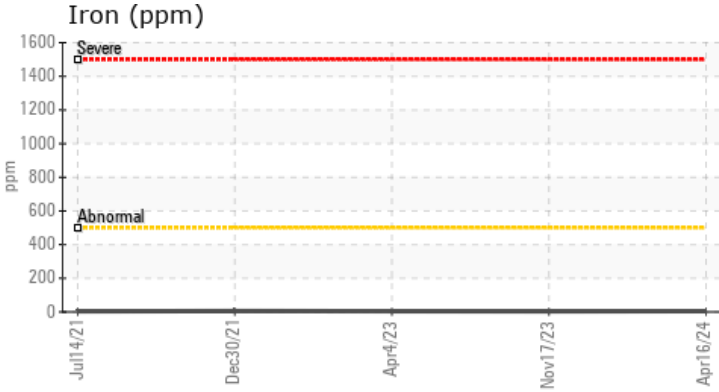
Depot: VOLVO8885
Unique No: 11004020
Signed: Wes Davis
Report Date: 30 Apr 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS





CONSTRUCTION EQUIPMENT

SPM702170 ALTER S SENNEBOGEN 840E 840.0.2195 - REAR RIGHT FINAL DRIVE



Sample No: VCP439229
Oil Type: GEAR OIL SAE 80W90
Job No: SPM702170 ALTER S



SAMPLE INFORMATION

Sample Number	VCP439229	VCP433825	VCP399573	VCP347934
Sample Date	16 Apr 2024	17 Nov 2023	04 Apr 2023	30 Dec 2021
Machine Hours	11148	10000	8847	5443
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT CO - ORLAND PARK
 5000 INDUSTRIAL HWY
 GARY, IN
 US 46406
 Contact: MARK DEROSA
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 F:



OIL CONDITION

Visc @ 40°C	cSt	141	146	148	150
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	4	3	6	2
Sodium	ppm	<1	2	0	0
Potassium	ppm	1	3	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	7	4	6	3
Copper	ppm	4	2	1	<1
Lead	ppm	0	0	0	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	1	0	0	<1
Chromium	ppm	<1	0	<1	0
Molybdenum	ppm	<1	0	0	0
Nickel	ppm	<1	0	<1	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	0
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	14	0	<1	<1
Magnesium	ppm	2	0	<1	0
Zinc	ppm	9	0	2	6
Phosphorus	ppm	682	1922	2120	1922
Barium	ppm	1	0	0	0
Boron	ppm	25	163	161	187

Depot: VOLVO8885
Unique No: 11004023
Signed: Wes Davis
Report Date: 30 Apr 2024



CONSTRUCTION EQUIPMENT



GRAPHS

