



CONSTRUCTION EQUIPMENT

SPM715577 ALTER ROCK SENNEBOGEN 840 840.0.2192 - DIESEL ENGINE



Sample No: VCP446959
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM715577 ALTER ROCK



SAMPLE INFORMATION

Sample Number	VCP446959	VCP437356	VCP392951	VCP433264
Sample Date	10 May 2024	22 Mar 2024	02 Feb 2024	05 Dec 2023
Machine Hours	15677	15145	14505	13870
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	MARGINAL	SEVERE	NORMAL

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Contact: MARK DEROSA
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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.5	▲ 11.3	13.4
Base Number (BN)	mg KOH/g	8.6	8.2	8.2	8.9
Oxidation (PA)	%	66	73	70	66

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 %	%	0.2	0.2	0.1	0.2
Nitration (PA)	%	67	71	73	64
Sulfation (PA)	%	54	57	55	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	▲ 1.9	▲ 6.0	<1.0
Silicon	ppm	2	2	2	2
Sodium	ppm	<1	<1	<1	0
Potassium	ppm	3	0	0	<1

WEAR METALS

Iron	ppm	6	4	3	2
Copper	ppm	<1	<1	0	<1
Lead	ppm	0	0	0	0
Tin	ppm	<1	<1	0	0
Aluminum	ppm	2	<1	<1	<1
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	59	62	54	56
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1027	1106	979	987
Magnesium	ppm	974	1011	895	947
Zinc	ppm	1189	1220	1137	1242
Phosphorus	ppm	986	1021	949	946
Barium	ppm	0	0	0	0
Boron	ppm	0	2	0	0

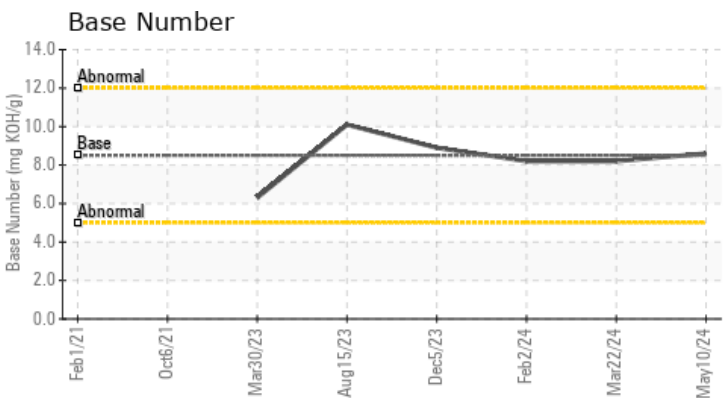
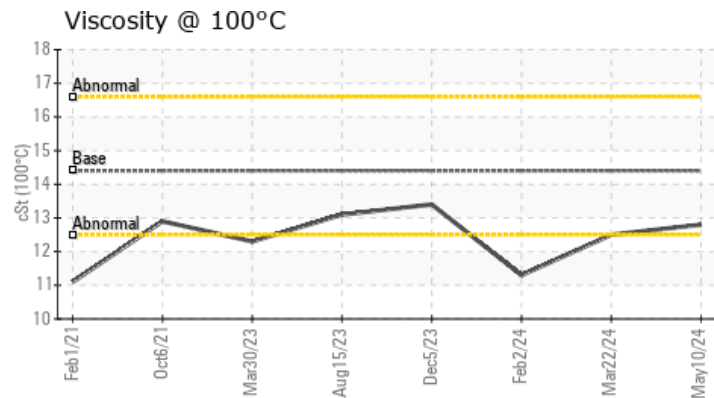
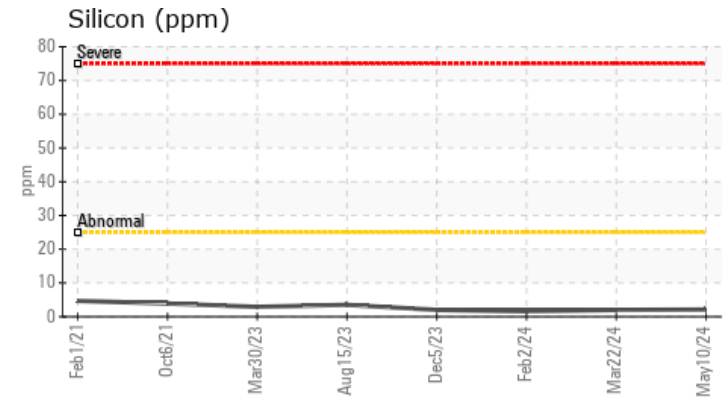
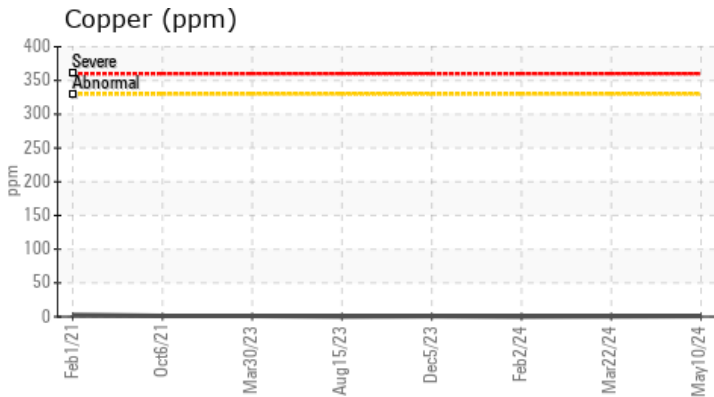
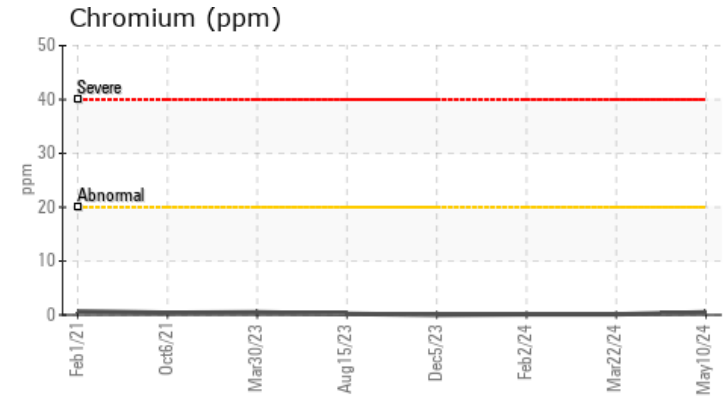
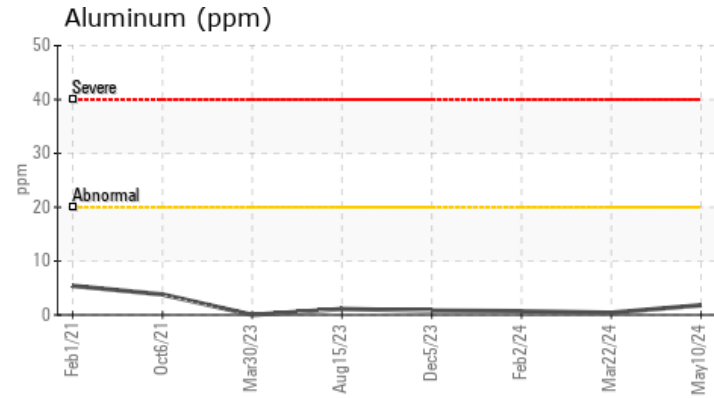
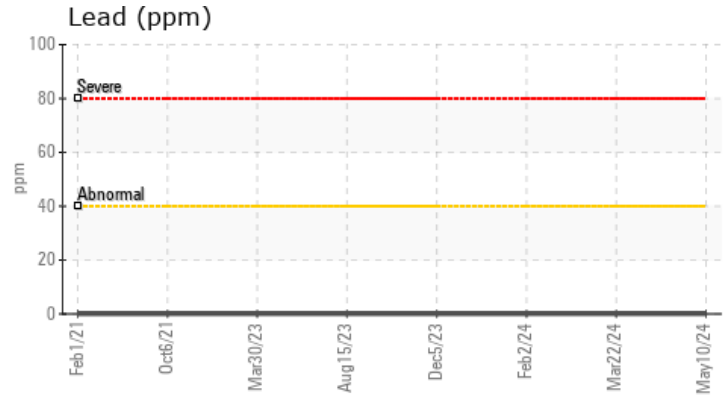
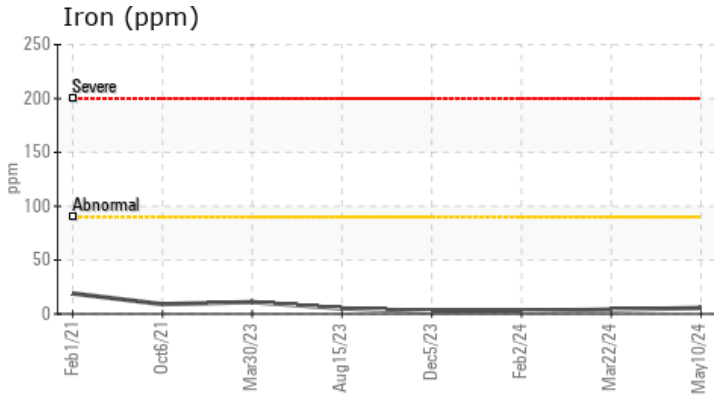
Depot: VOLVO8885
Unique No: 11059522
Signed: Wes Davis
Report Date: 04 Jun 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS





CONSTRUCTION EQUIPMENT

SPM688226 ALTER ROCK SENNEBOGEN 840 840.0.2192 - HYDRAULIC SYSTEM



Sample No: VCP443690
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SPM688226 ALTER ROCK



SAMPLE INFORMATION

Sample Number	VCP443690	VCP409185	---	---
Sample Date	22 Mar 2024	16 Aug 2023	---	---
Machine Hours	15145	12681	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Changed	Changed	---	---
Sample Status	NORMAL	ABNORMAL	---	---

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OIL CONDITION

Visc @ 40°C	cSt	█ 41.9	█ 42.1	---	---
Acid Number (AN)	mg KOH/g	█ 0.46	█ 0.45	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		█ 1864	▲ 12245	---	---
Particles >6µm		█ 185	▲ 2733	---	---
Particles >14µm		█ 11	█ 98	---	---
ISO 4406:1999 (c)		18/15/11	21/19/14	---	---
Silicon	ppm	█ 2	█ <1	---	---
Sodium	ppm	█ 1	█ 4	---	---
Potassium	ppm	█ 2	█ 0	---	---

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	█ 14	█ 19	---	---
Copper	ppm	█ 2	█ 1	---	---
Lead	ppm	█ 1	█ 0	---	---
Tin	ppm	█ 1	█ 0	---	---
Aluminum	ppm	█ 2	█ <1	---	---
Chromium	ppm	█ 6	█ 9	---	---
Molybdenum	ppm	█ 3	█ 2	---	---
Nickel	ppm	█ <1	█ 0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	█ <1	█ 0	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	█ 120	█ 165	---	---
Magnesium	ppm	█ 12	█ 7	---	---
Zinc	ppm	█ 451	█ 446	---	---
Phosphorus	ppm	█ 393	█ 369	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ <1	█ 0	---	---

Depot: VOLVO8885
Unique No: 10955765
Signed: Wes Davis
Report Date: 03 Apr 2024

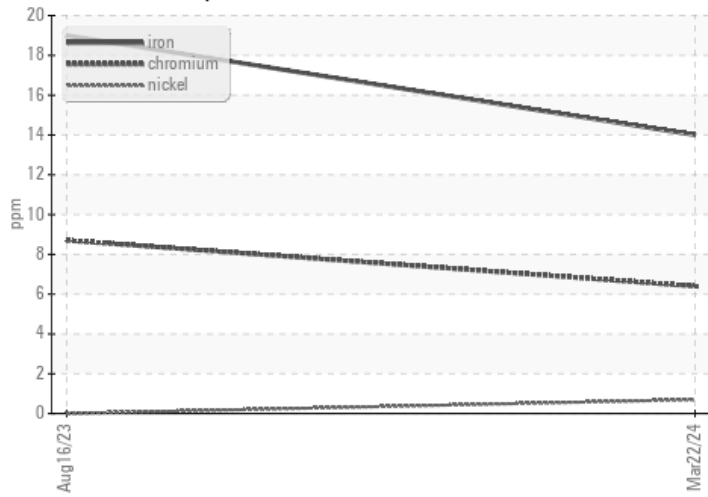


CONSTRUCTION EQUIPMENT

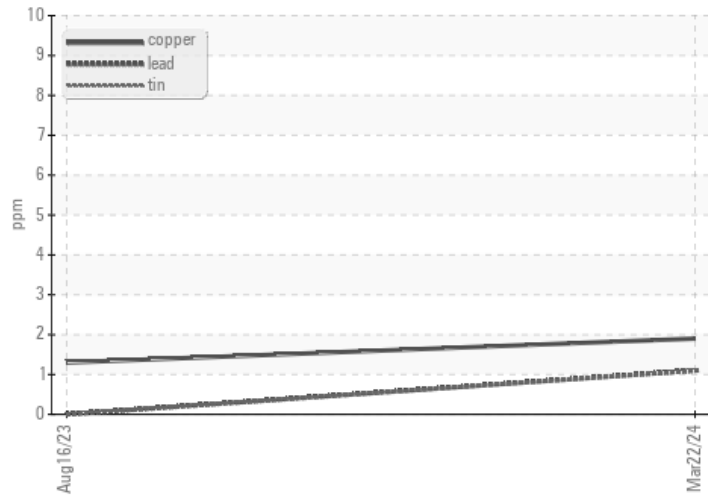


GRAPHS

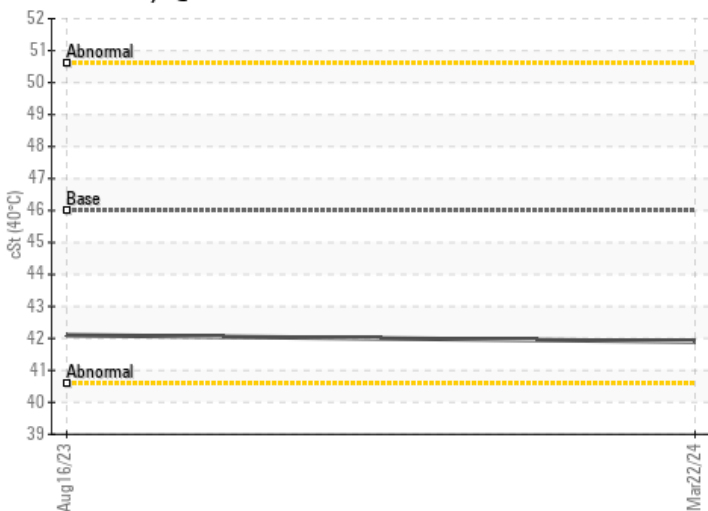
Ferrous Alloys



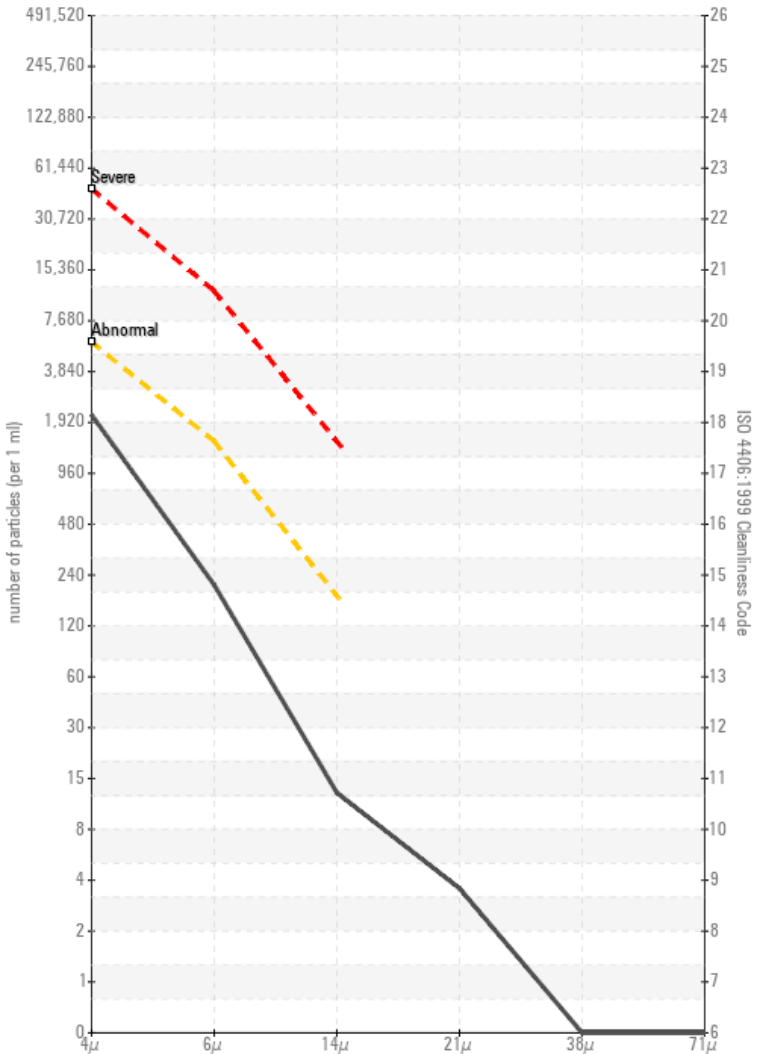
Non-ferrous Metals



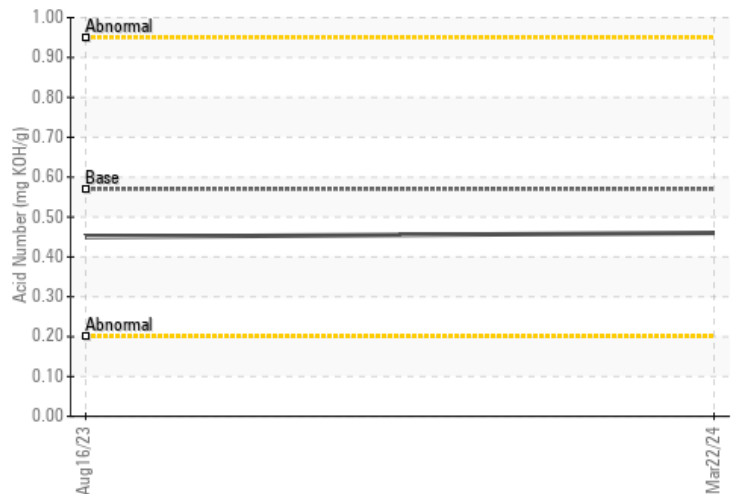
Viscosity @ 40°C



Particle Count



Acid Number





CONSTRUCTION EQUIPMENT

SPM688226 ALTER ROCK SENNEBOGEN 840 840.0.2192 - LEFT SWING DRIVE



Sample No: VCP437385
Oil Type: GEAR OIL ISO 220
Job No: SPM688226 ALTER ROCK



SAMPLE INFORMATION

Sample Number	VCP437385	VCP409187	VCP344711	VCP219762
Sample Date	22 Mar 2024	16 Aug 2023	06 Oct 2021	01 Feb 2021
Machine Hours	15145	12681	5724	3486
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	224	220	221	219
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	31	20	21	4
Sodium	ppm	<1	1	0	<1
Potassium	ppm	0	<1	0	0

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	283	228	233	119
Copper	ppm	46	29	96	62
Lead	ppm	0	0	<1	0
Tin	ppm	6	6	11	<1
Aluminum	ppm	0	<1	0	<1
Chromium	ppm	2	2	<1	<1
Molybdenum	ppm	0	0	<1	0
Nickel	ppm	<1	<1	2	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	2	2	2	2
Vanadium	ppm	0	0	0	0

Diagnosis



ADDITIVES

Calcium	ppm	22	15	7	8
Magnesium	ppm	0	2	0	<1
Zinc	ppm	16	30	75	43
Phosphorus	ppm	445	405	415	332
Barium	ppm	0	0	0	<1
Boron	ppm	<1	<1	10	20

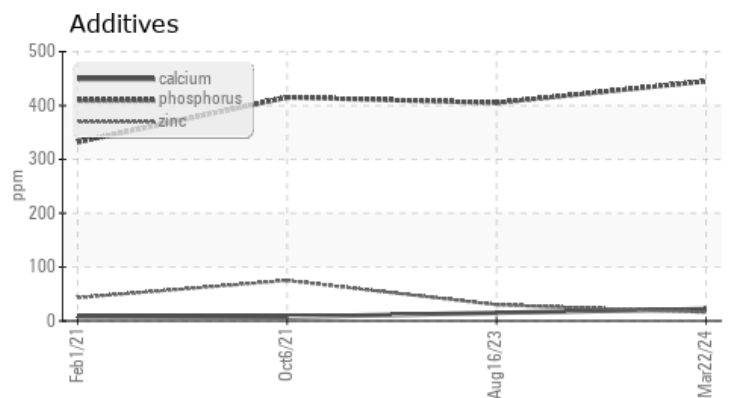
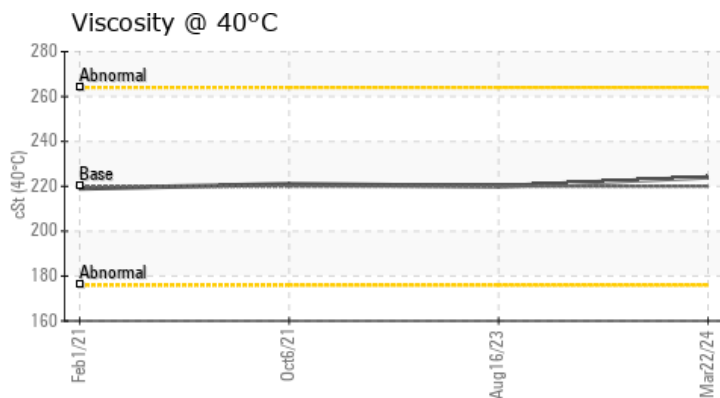
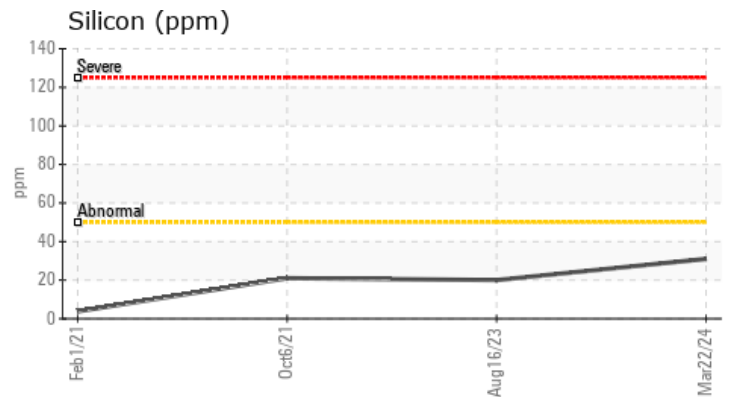
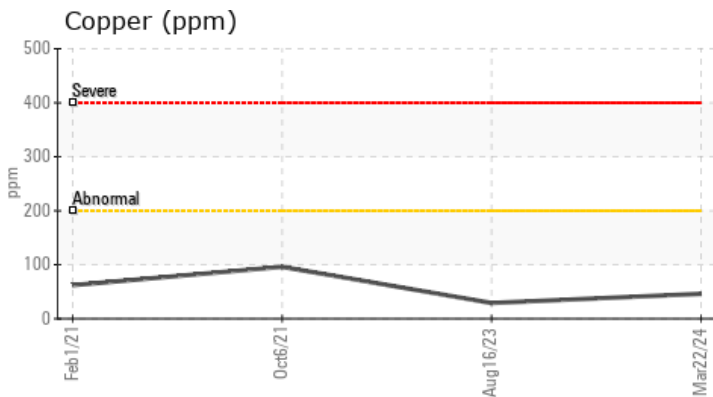
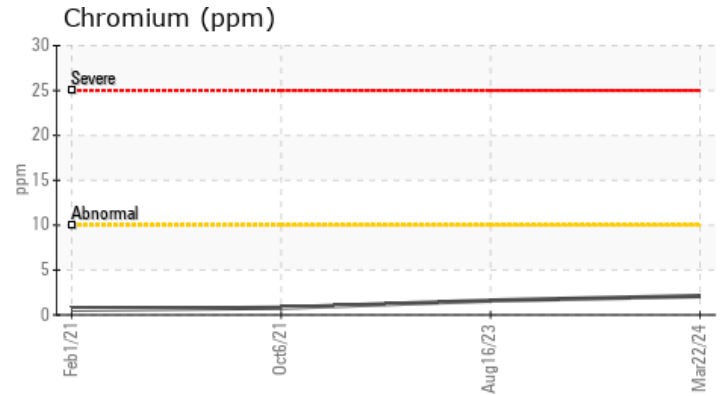
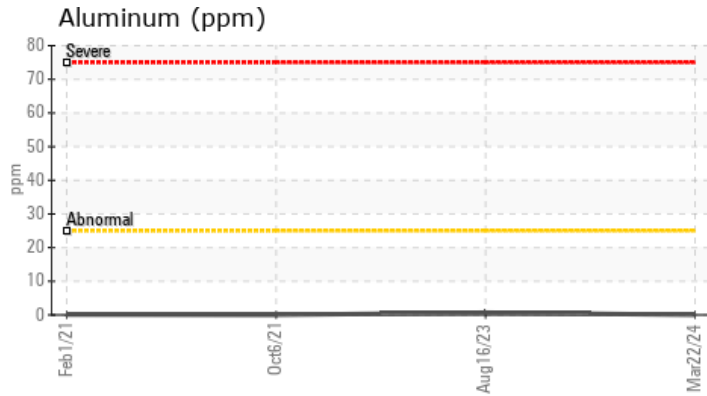
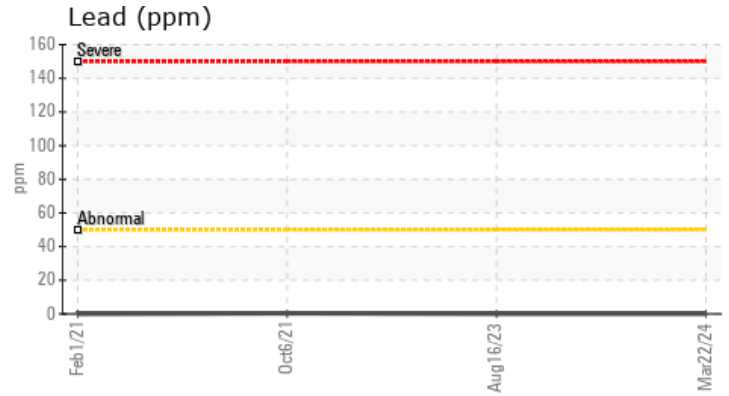
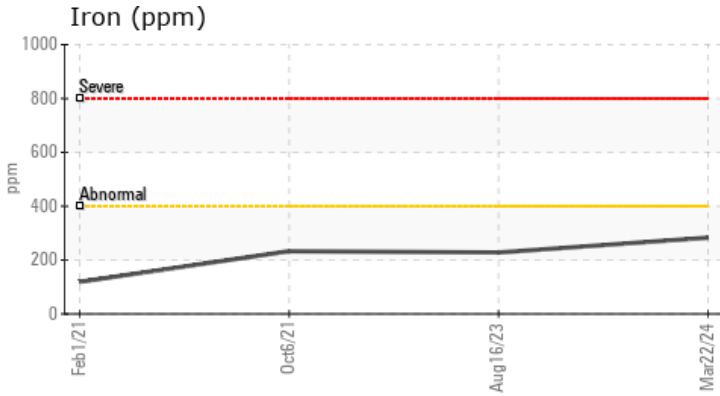
Depot: VOLVO8885
Unique No: 10956131
Signed: Don Baldrige
Report Date: 04 Apr 2024



CONSTRUCTION EQUIPMENT



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CONSTRUCTION EQUIPMENT

SPM688226 ALTER ROCK SENNEBOGEN 840 840.0.2192 - RIGHT SWING DRIVE



Sample No: VCP437382
Oil Type: GEAR OIL ISO 220
Job No: SPM688226 ALTER ROCK



SAMPLE INFORMATION

Sample Number	VCP437382	VCP409184	VCP344707	VCP302493
Sample Date	22 Mar 2024	16 Aug 2023	06 Oct 2021	01 Feb 2021
Machine Hours	15145	12681	5724	3486
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	N/A
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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Contact: DAVE ENG
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OIL CONDITION

Visc @ 40°C	cSt	223	219	211	▲ 155
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	26	18	19	4
Sodium	ppm	<1	1	0	1
Potassium	ppm	0	<1	0	0

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	348	188	154	135
Copper	ppm	92	21	68	67
Lead	ppm	0	0	<1	<1
Tin	ppm	7	2	8	0
Aluminum	ppm	<1	<1	0	<1
Chromium	ppm	2	1	<1	<1
Molybdenum	ppm	0	0	1	<1
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	3	2	1	2
Vanadium	ppm	0	0	0	0

Diagnosis



ADDITIVES

Calcium	ppm	83	5	28	16
Magnesium	ppm	<1	2	6	2
Zinc	ppm	41	15	52	74
Phosphorus	ppm	473	485	474	331
Barium	ppm	0	0	0	<1
Boron	ppm	5	2	11	18

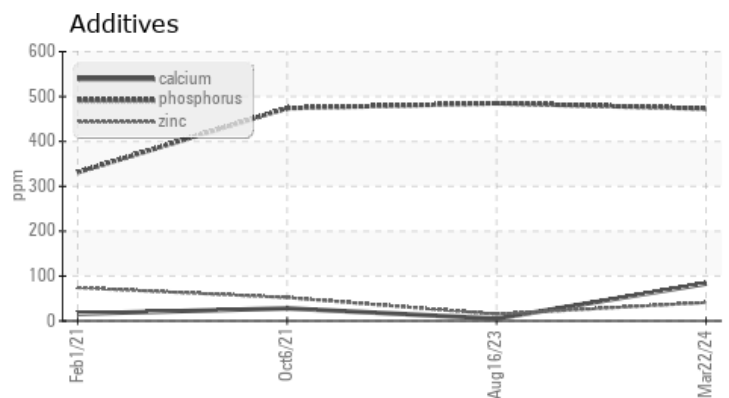
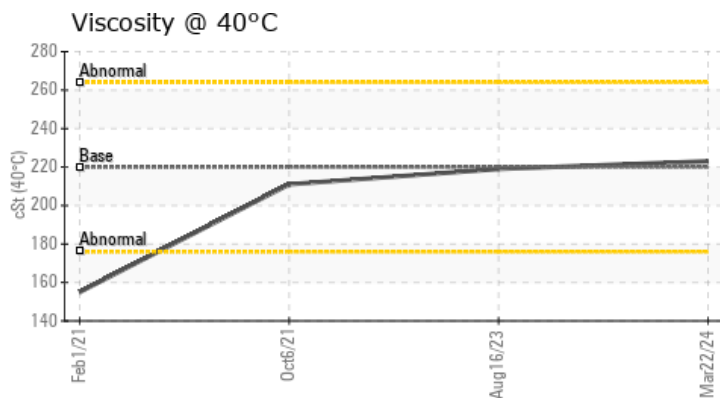
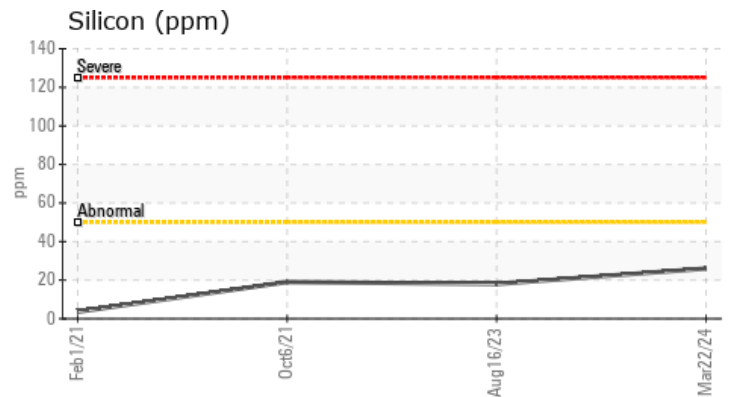
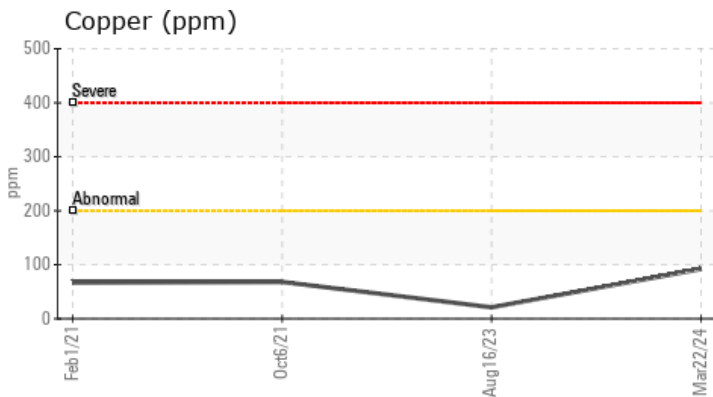
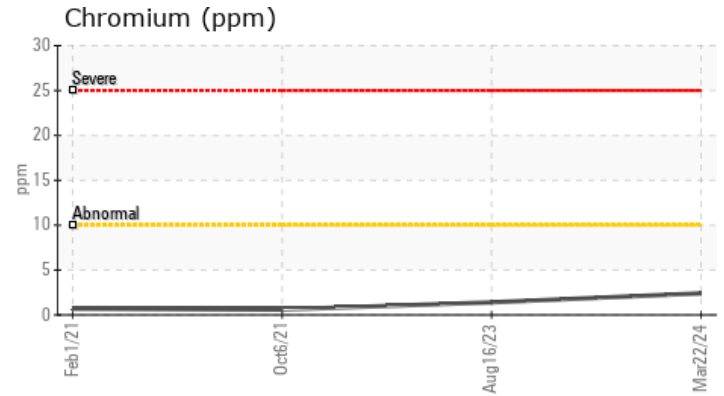
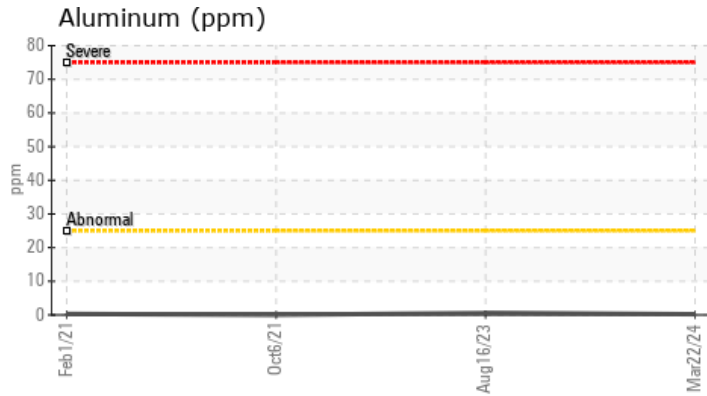
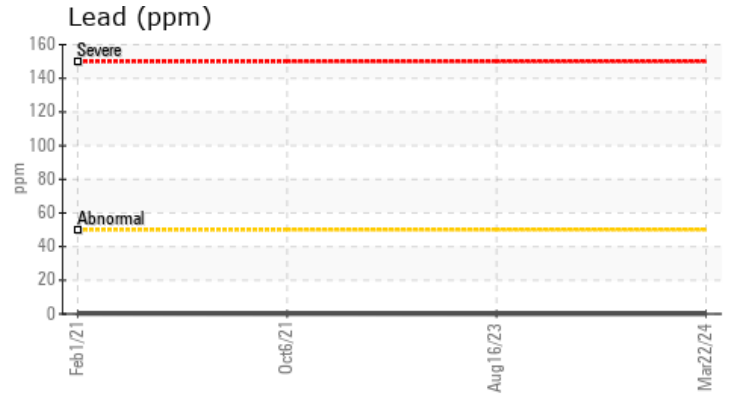
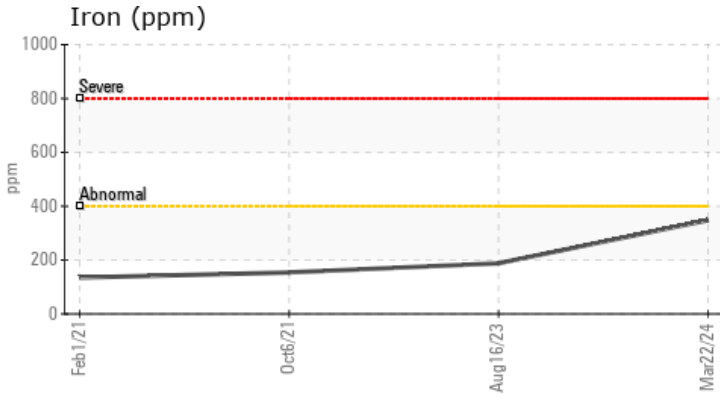
Depot: VOLVO8885
Unique No: 10956130
Signed: Don Baldrige
Report Date: 04 Apr 2024



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

SPM688226 ALTER ROCK SENNEBOGEN 840 840.0.2192 - FRONT LEFT FINAL DRIVE



Sample No: VCP443694
Oil Type: GEAR OIL SAE 80W90
Job No: SPM688226 ALTER ROCK



SAMPLE INFORMATION

Sample Number	VCP443694	VCP433265	VCP409179	VCP399747
Sample Date	22 Mar 2024	05 Dec 2023	15 Aug 2023	30 Mar 2023
Machine Hours	15145	13870	12681	11146
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	148	147	151	177
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	3	3	6	13
Sodium	ppm	<1	<1	2	1
Potassium	ppm	0	<1	0	<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	35	21	16	12
Copper	ppm	<1	2	3	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	<1	<1	0
Aluminum	ppm	0	<1	<1	<1
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	0	0	0	<1
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	170	346	815	2273
Magnesium	ppm	0	2	7	12
Zinc	ppm	67	156	343	985
Phosphorus	ppm	598	656	888	1378
Barium	ppm	0	0	<1	0
Boron	ppm	8	16	37	50

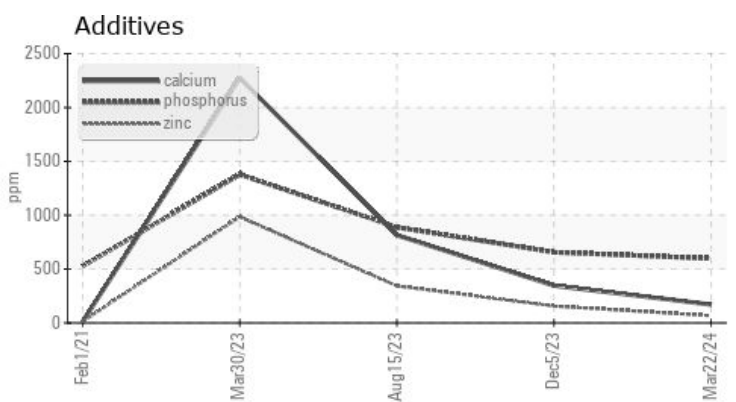
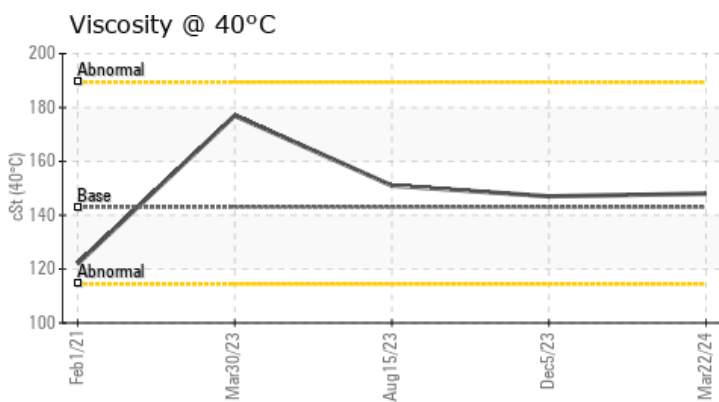
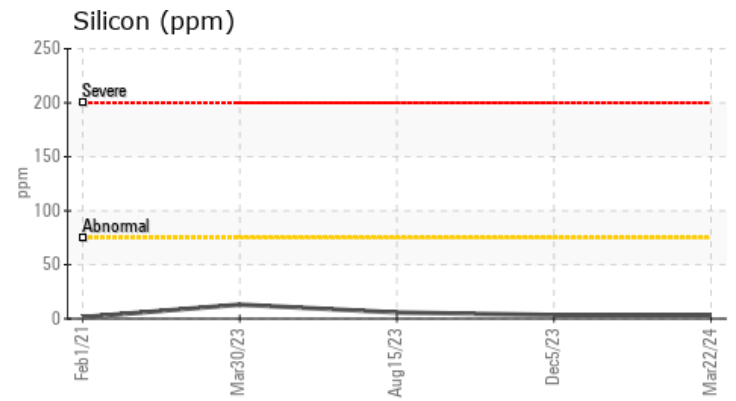
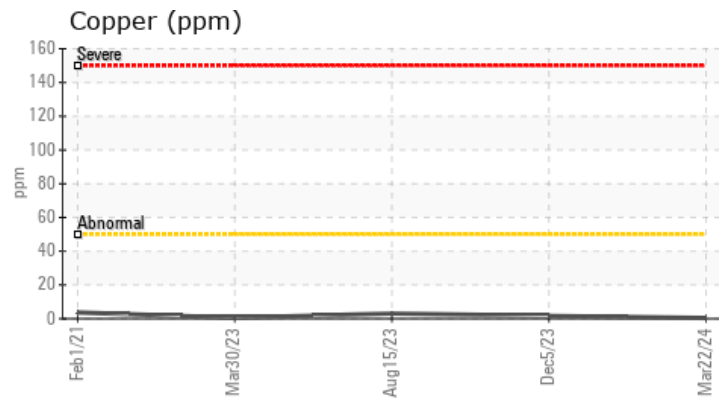
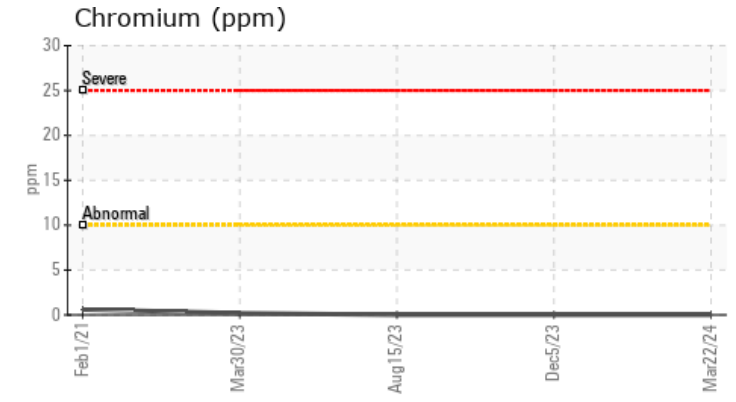
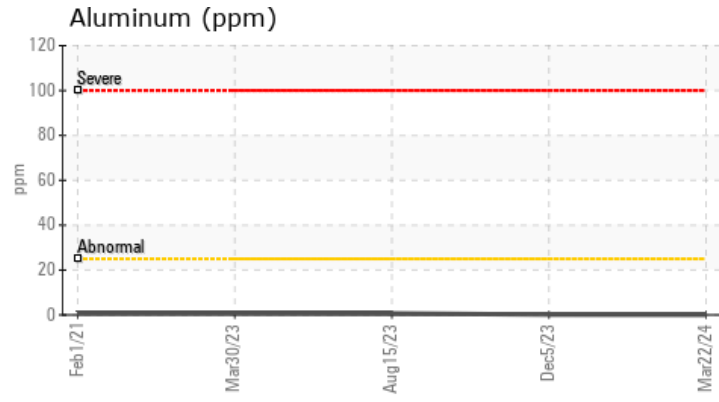
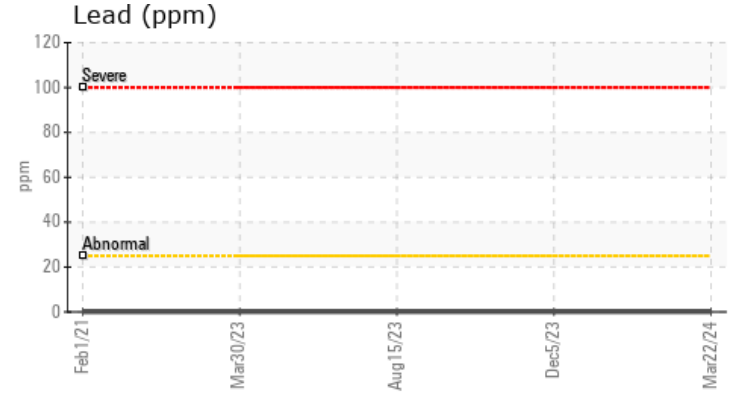
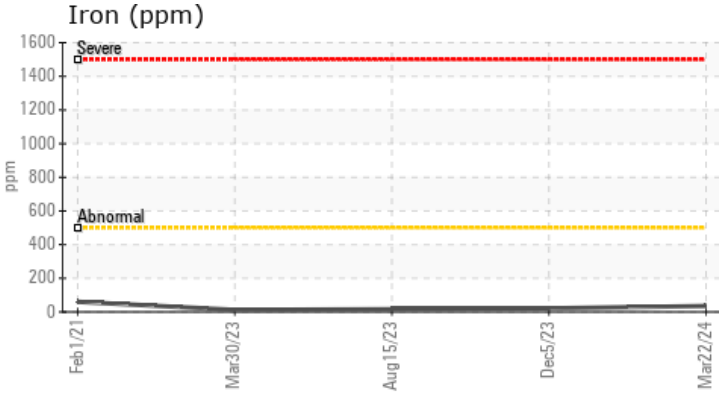
Depot: VOLVO8885
Unique No: 10956121
Signed: Wes Davis
Report Date: 03 Apr 2024



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VOLVO GRAPHS



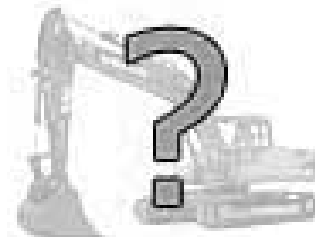


CONSTRUCTION EQUIPMENT

SPM646183 ALTER SENNEBOGEN 840 840.0.2192 - FRONT AXLE



Sample No: VCP433266
Oil Type: GEAR OIL SAE 80W90
Job No: SPM646183 ALTER



SAMPLE INFORMATION

Sample Number	VCP433266	VCP409188	VCP399525	VCP344710
Sample Date	05 Dec 2023	15 Aug 2023	30 Mar 2023	06 Oct 2021
Machine Hours	13870	12681	11146	5724
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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 F:



OIL CONDITION

Visc @ 40°C	cSt	139	146	185	145
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CONTAMINATION

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



ADDITIVES

Calcium	ppm	14	174	2970	11
Magnesium	ppm	<1	3	16	0
Zinc	ppm	6	77	1272	3
Phosphorus	ppm	460	767	1187	2080
Barium	ppm	0	0	0	0
Boron	ppm	4	29	17	73

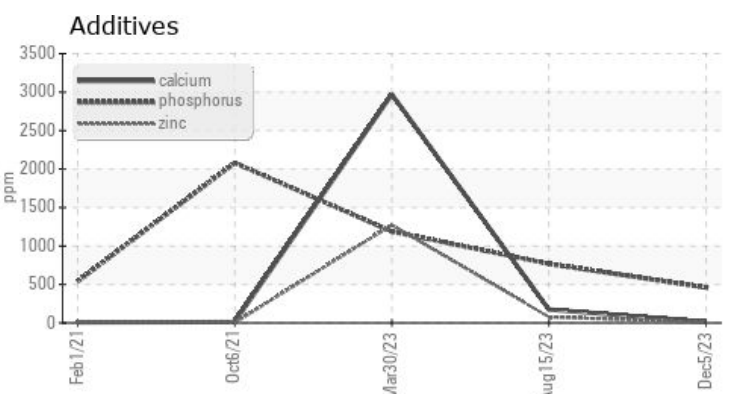
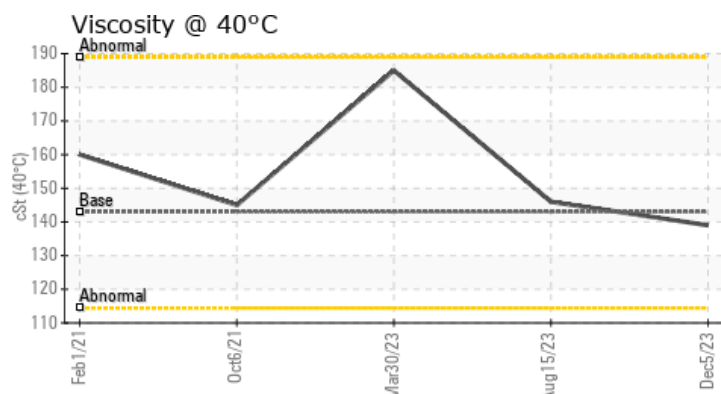
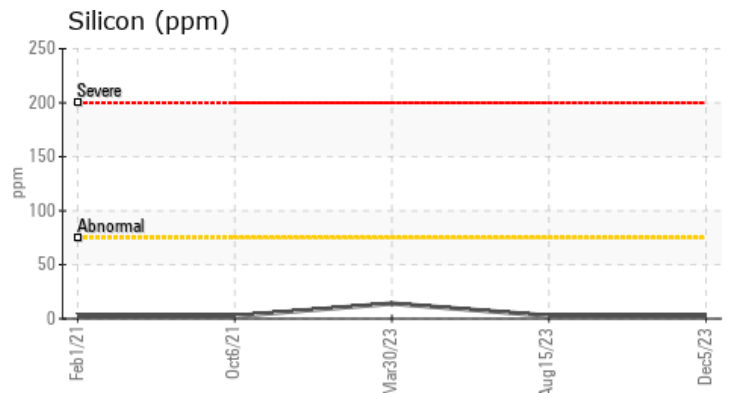
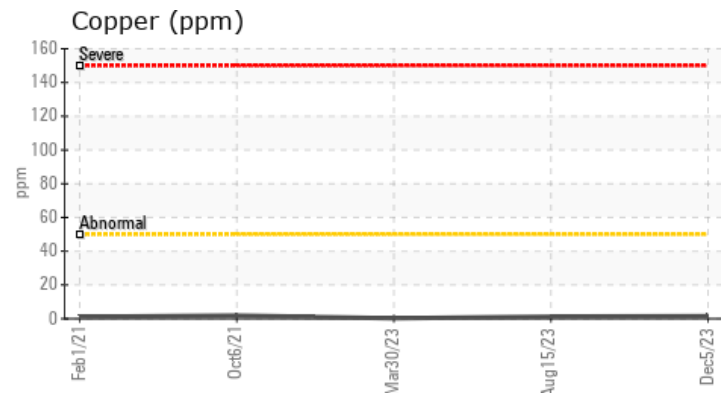
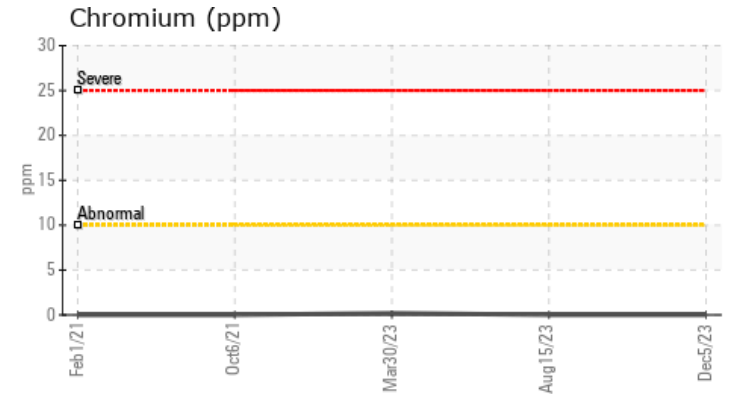
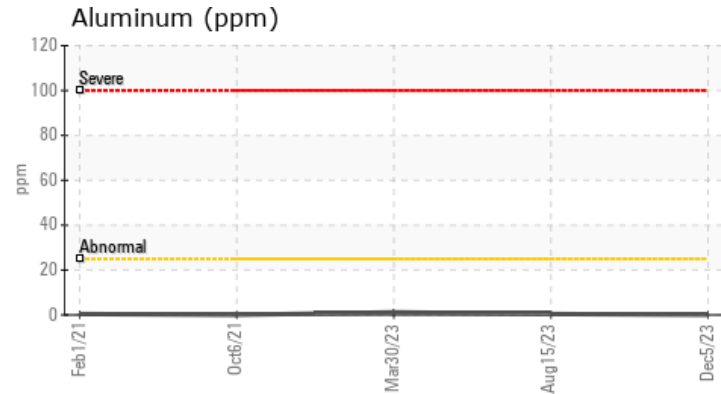
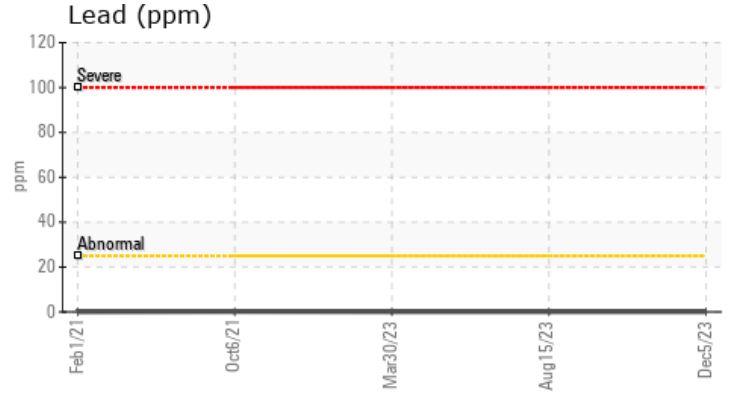
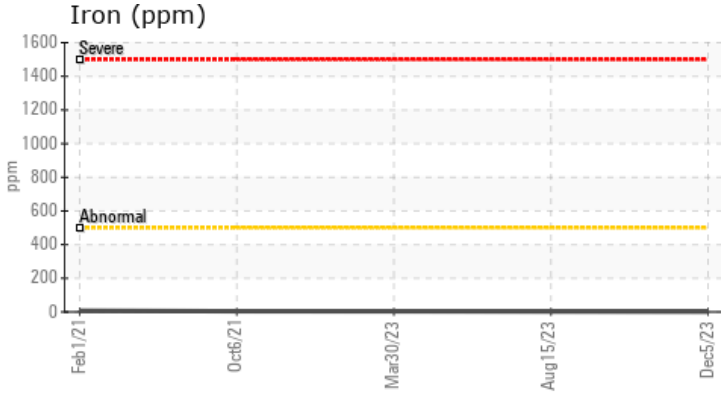
Depot: VOLVO8885
Unique No: 10793380
Signed: Wes Davis
Report Date: 19 Dec 2023



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

SPM688226 ALTER ROCK SENNEBOGEN 840 840.0.2192 - FRONT RIGHT FINAL DRIVE



Sample No: VCP439357
Oil Type: GEAR OIL SAE 80W90
Job No: SPM688226 ALTER ROCK



SAMPLE INFORMATION

Sample Number	VCP439357	VCP433262	VCP409180	VCP399527
Sample Date	22 Mar 2024	05 Dec 2023	15 Aug 2023	30 Mar 2023
Machine Hours	15145	13870	12681	11146
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
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	148	147	169
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	4	3	7	16
Sodium	ppm	<1	<1	2	1
Potassium	ppm	0	<1	0	<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	41	27	25	19
Copper	ppm	<1	2	3	1
Lead	ppm	0	0	0	0
Tin	ppm	0	<1	<1	0
Aluminum	ppm	0	0	<1	<1
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	0	0	0	<1
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	78	181	730	1810
Magnesium	ppm	0	<1	7	10
Zinc	ppm	27	83	315	805
Phosphorus	ppm	541	607	1069	1566
Barium	ppm	0	0	0	0
Boron	ppm	9	11	54	81

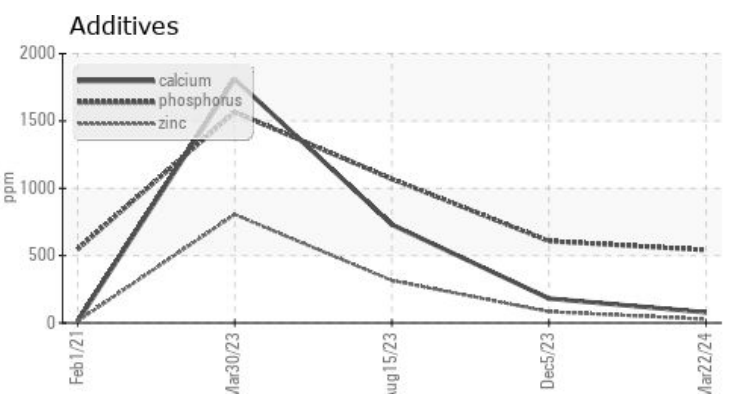
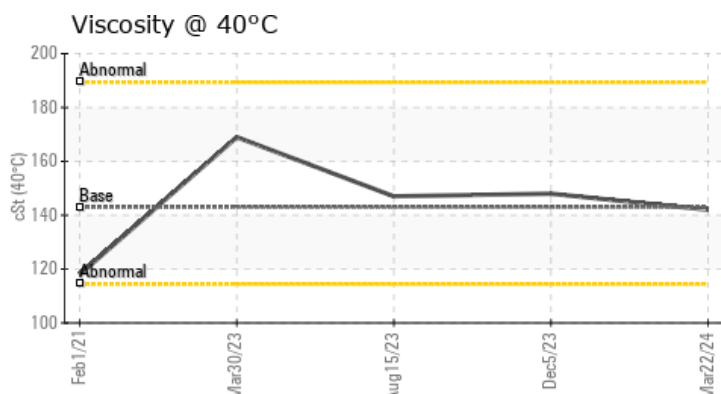
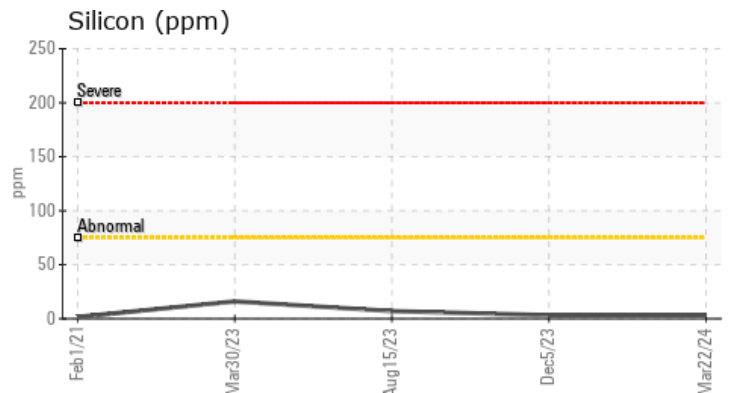
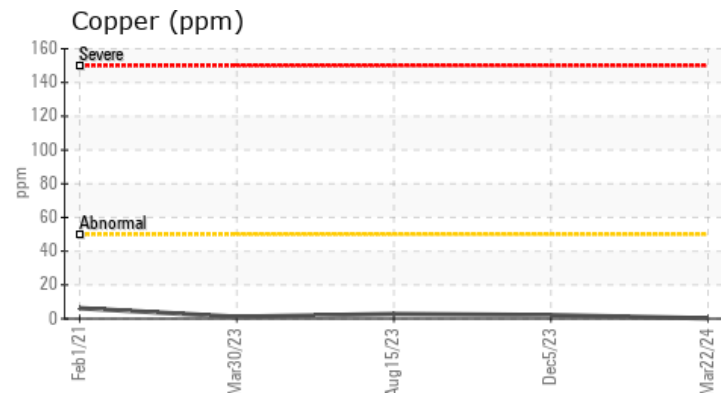
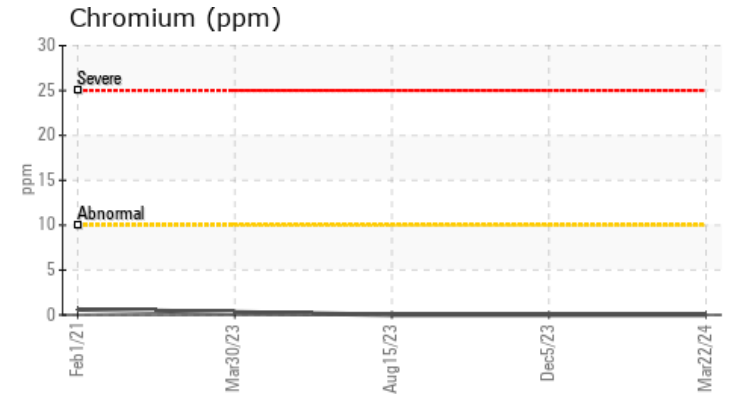
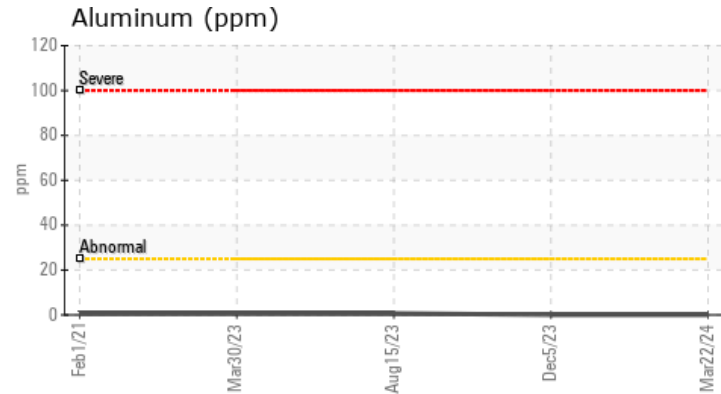
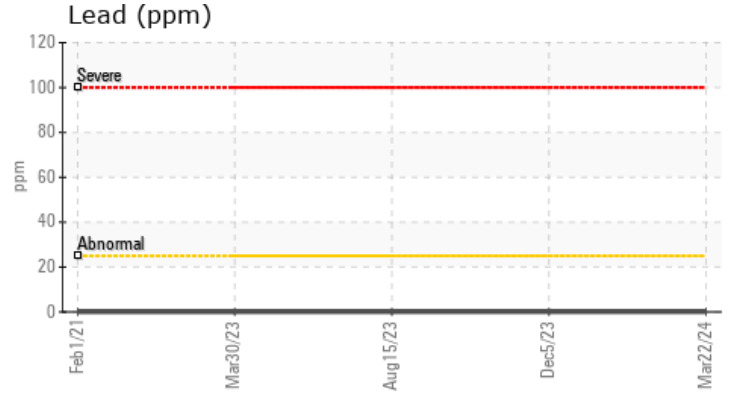
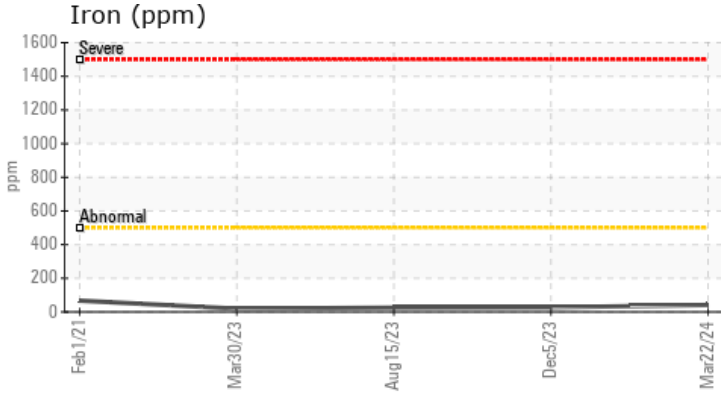
Depot: VOLVO8885
Unique No: 10956118
Signed: Wes Davis
Report Date: 03 Apr 2024



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

SPM688226 ALTER ROCK SENNEBOGEN 840 840.0.2192 - REAR LEFT FINAL DRIVE



Sample No: VCP438187
Oil Type: GEAR OIL SAE 80W90
Job No: SPM688226 ALTER ROCK



SAMPLE INFORMATION

Sample Number	VCP438187	VCP433278	VCP409183	VCP399529
Sample Date	22 Mar 2024	05 Dec 2023	15 Aug 2023	30 Mar 2023
Machine Hours	15145	13870	12681	11146
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
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	139	139	146	181
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CONTAMINATION

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



ADDITIVES

Calcium	ppm	14	64	363	2458
Magnesium	ppm	0	<1	4	13
Zinc	ppm	0	26	159	1065
Phosphorus	ppm	477	489	818	1269
Barium	ppm	0	0	0	0
Boron	ppm	<1	4	30	36

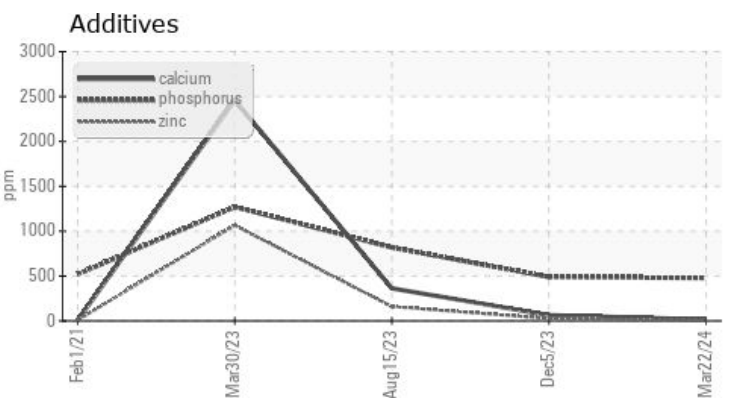
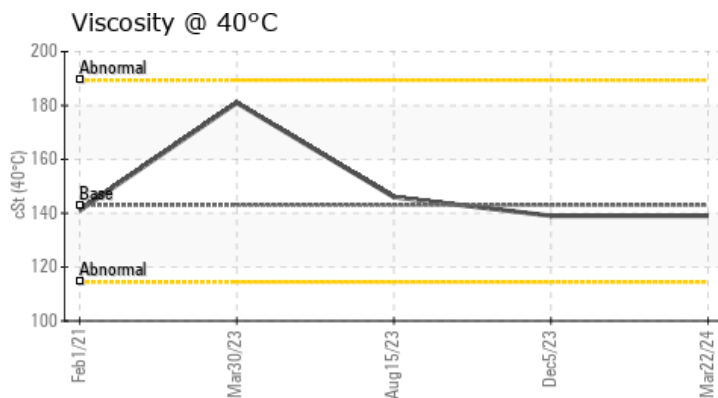
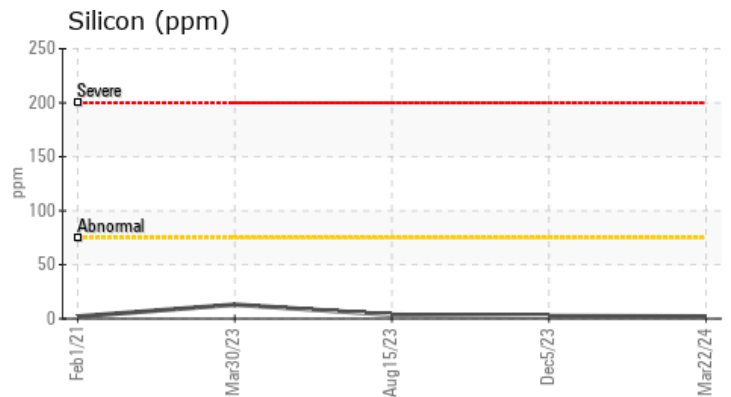
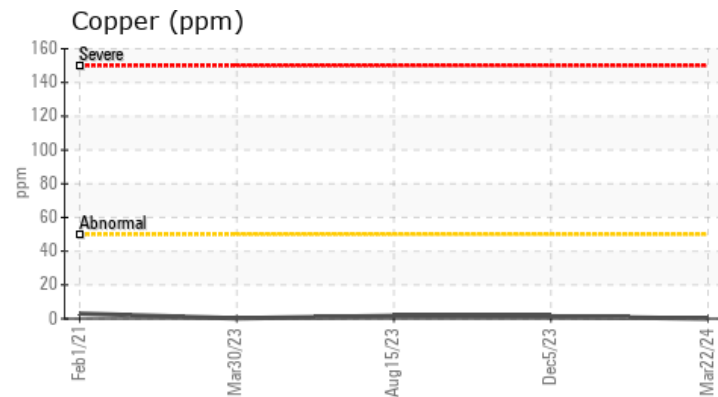
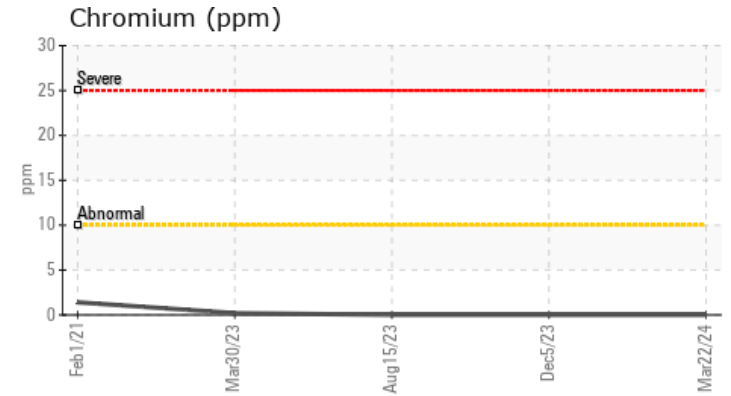
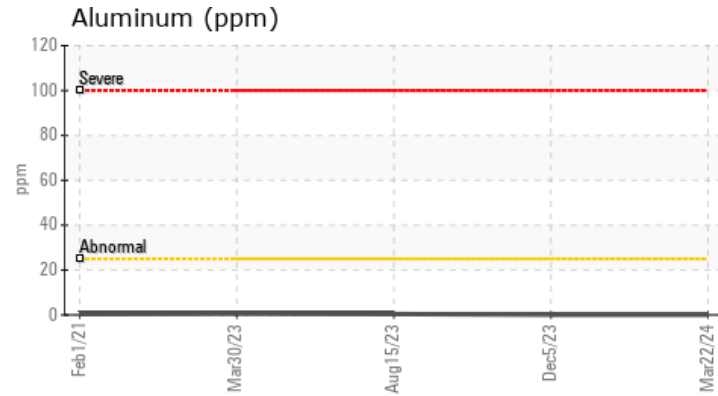
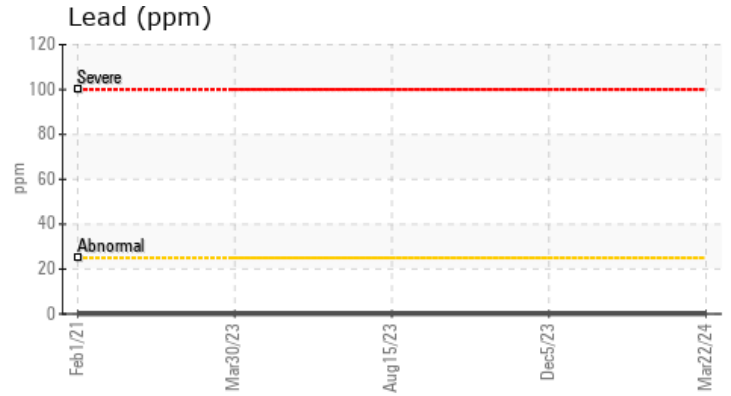
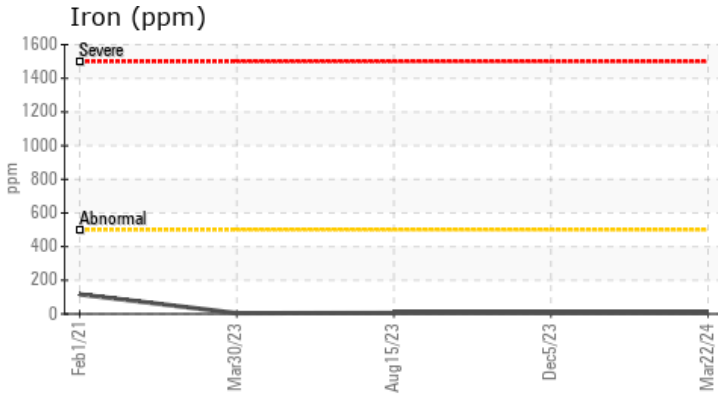
Depot: VOLVO8885
Unique No: 10956120
Signed: Wes Davis
Report Date: 03 Apr 2024



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

SPM646183 ALTER SENNEBOGEN 840 840.0.2192 - REAR AXLE



Sample No: VCP433263
Oil Type: GEAR OIL SAE 80W90
Job No: SPM646183 ALTER



SAMPLE INFORMATION

Sample Number	VCP433263	VCP409186	VCP399748	VCP327506
Sample Date	05 Dec 2023	15 Aug 2023	30 Mar 2023	06 Oct 2021
Machine Hours	13870	12681	11146	5724
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	139	147	181	146
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	2	4	13	2
Sodium	ppm	1	2	1	0
Potassium	ppm	<1	0	<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	6	7	3	7
Copper	ppm	1	2	<1	3
Lead	ppm	0	0	0	<1
Tin	ppm	<1	0	0	<1
Aluminum	ppm	0	<1	1	0
Chromium	ppm	0	0	<1	0
Molybdenum	ppm	0	0	<1	0
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	44	363	2533	2
Magnesium	ppm	<1	5	14	0
Zinc	ppm	17	157	1089	1
Phosphorus	ppm	503	813	1288	2018
Barium	ppm	0	0	0	0
Boron	ppm	7	30	35	90

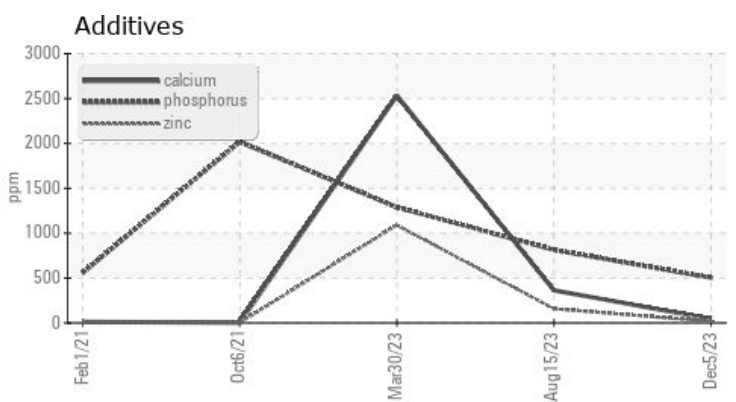
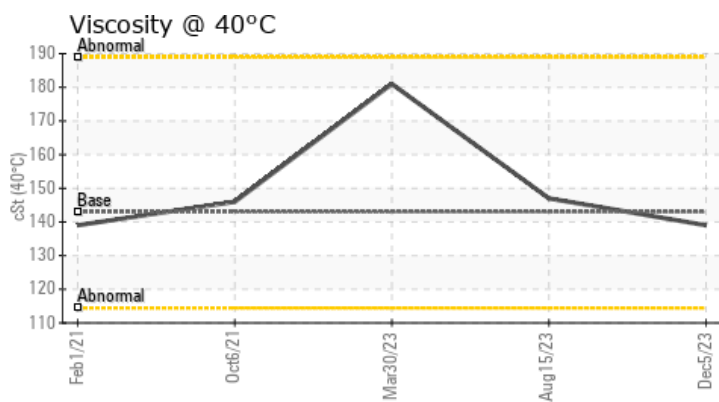
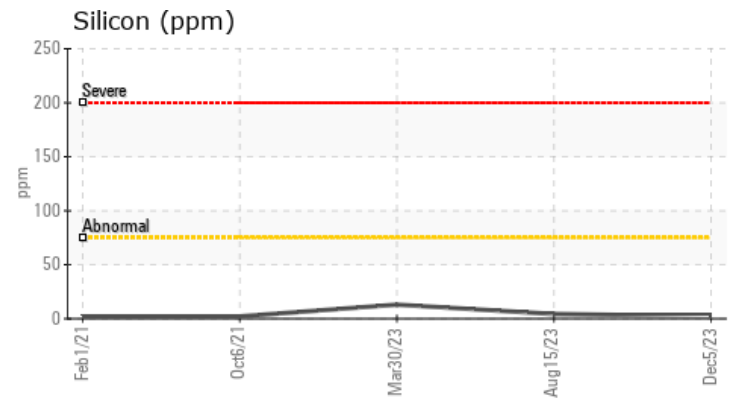
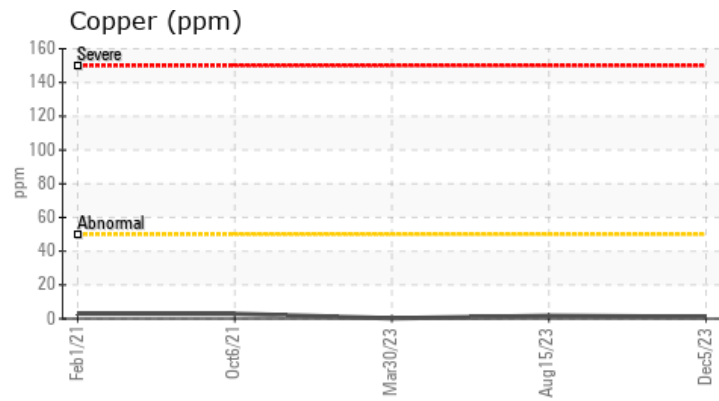
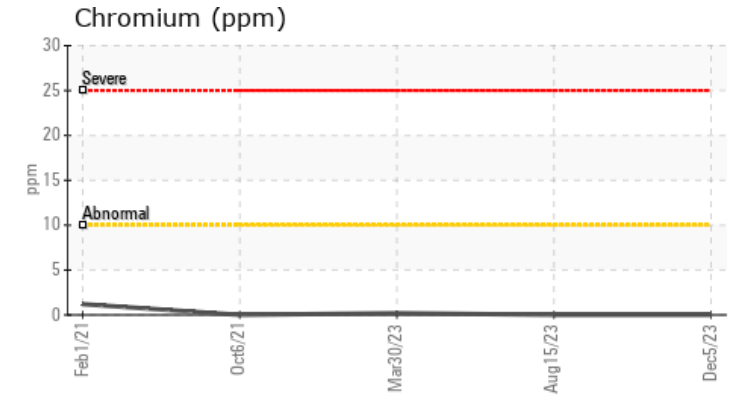
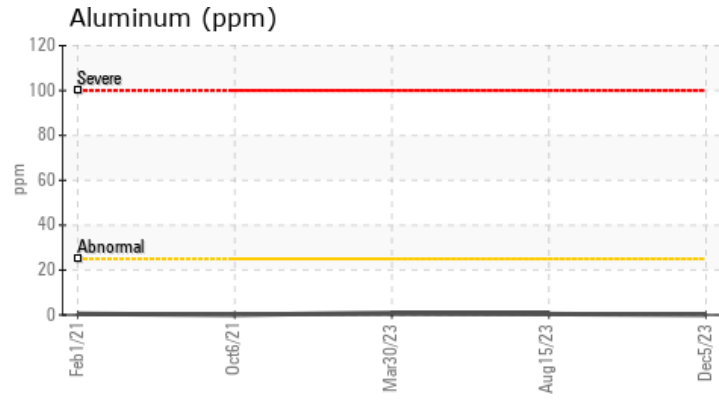
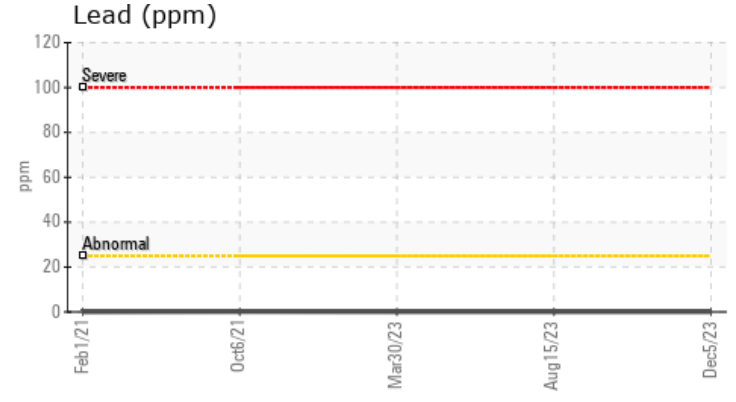
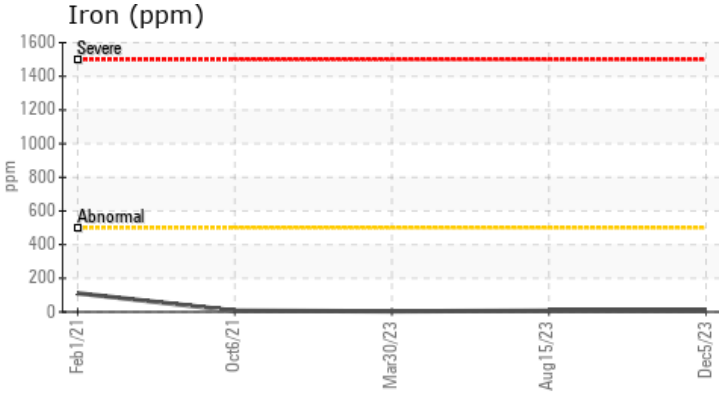
Depot: VOLVO8885
Unique No: 10793381
Signed: Wes Davis
Report Date: 19 Dec 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS



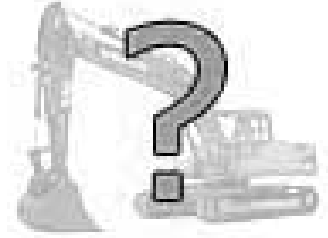


CONSTRUCTION EQUIPMENT

SPM688226 ALTER ROCK SENNEBOGEN 840 840.0.2192 - REAR RIGHT FINAL DRIVE



Sample No: VCP437355
Oil Type: GEAR OIL SAE 80W90
Job No: SPM688226 ALTER ROCK



SAMPLE INFORMATION

Sample Number	VCP437355	VCP433279	VCP409181	VCP399524
Sample Date	22 Mar 2024	05 Dec 2023	15 Aug 2023	30 Mar 2023
Machine Hours	15145	13870	12681	11146
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
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	139	137	147	180
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	2	3	4	13
Sodium	ppm	0	<1	2	1
Potassium	ppm	0	<1	2	<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	6	6	10	4
Copper	ppm	0	1	2	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	<1	<1	0
Aluminum	ppm	0	0	<1	1
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	0	0	0	<1
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	12	57	386	2511
Magnesium	ppm	0	0	4	13
Zinc	ppm	0	24	156	1092
Phosphorus	ppm	479	484	761	1282
Barium	ppm	0	0	<1	0
Boron	ppm	1	4	29	36

Depot: VOLVO8885
Unique No: 10956119
Signed: Wes Davis
Report Date: 03 Apr 2024



CONSTRUCTION EQUIPMENT



GRAPHS

