



CONSTRUCTION EQUIPMENT

554307 APTIM VOLVO A35G 340236 - COOLANT



Sample No: VCP424441
Oil Type: VOLVO COOLANT VCS (YELLOW)
Job No: 554307 APTIM



SAMPLE INFORMATION

Sample Number	VCP424441	---	---	---
Sample Date	25 May 2023	---	---	---
Machine Hours	6888	---	---	---
Sample Status	NORMAL	---	---	---

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COOLANT CONDITION

pH	Scale 0-14	■ 7.23	---	---	---
Reserve Alkalinity	Scale 0-20	---	---	---	---
Nitrites	ppm	■ NT	---	---	---
Percentage Glycol	%	■ 45.7	---	---	---
Freezing Point	°C	■ -24	---	---	---

Diagnosis

No corrective action is recommended at this time. The fluid is suitable for further service. There is no indication of any contamination in the coolant. Carboxylate test failed. The glycol level is acceptable. The pH level of this fluid is within the acceptable limits.



CONTAMINATION

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

Depot: VOLVO0093
Unique No: 10526342
Signed: Jonathan Hester
Report Date: 28 Jun 2023

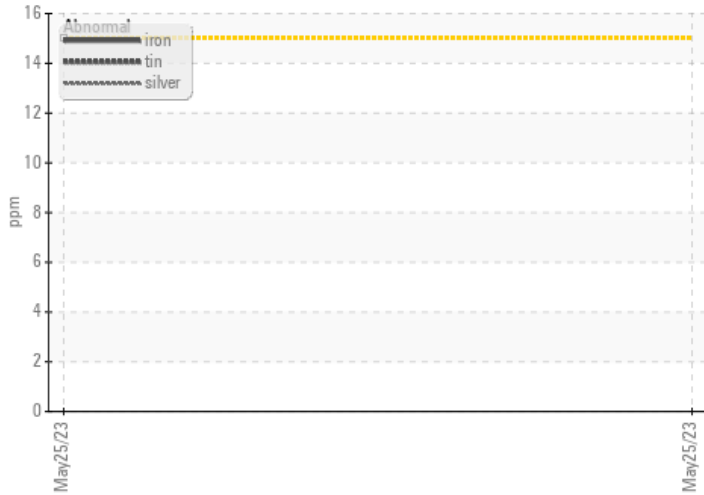


CONSTRUCTION EQUIPMENT

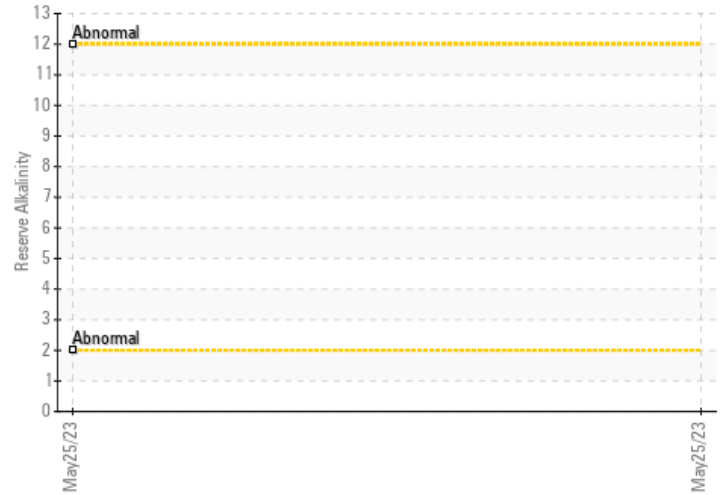


GRAPHS

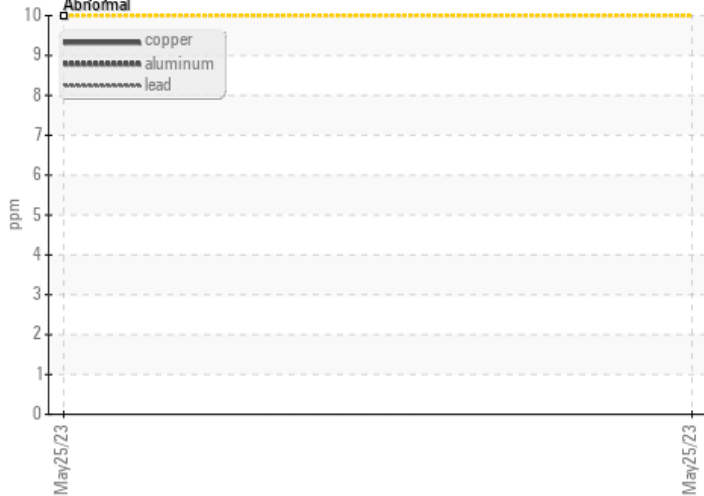
Iron/Tin/Silver



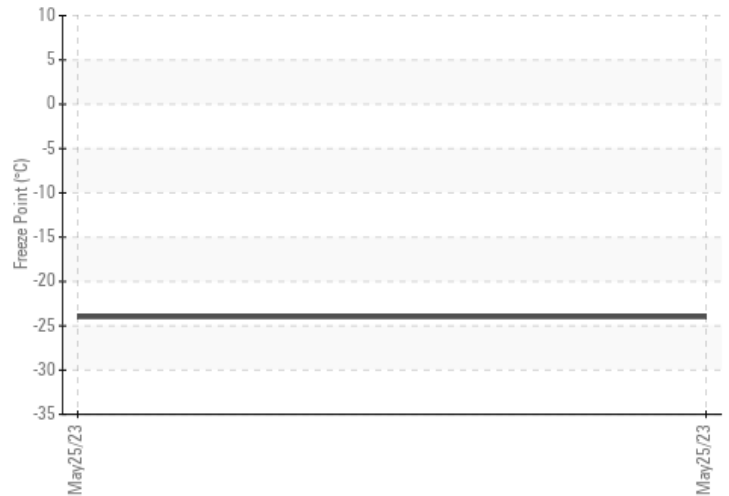
Reserve Alkalinity



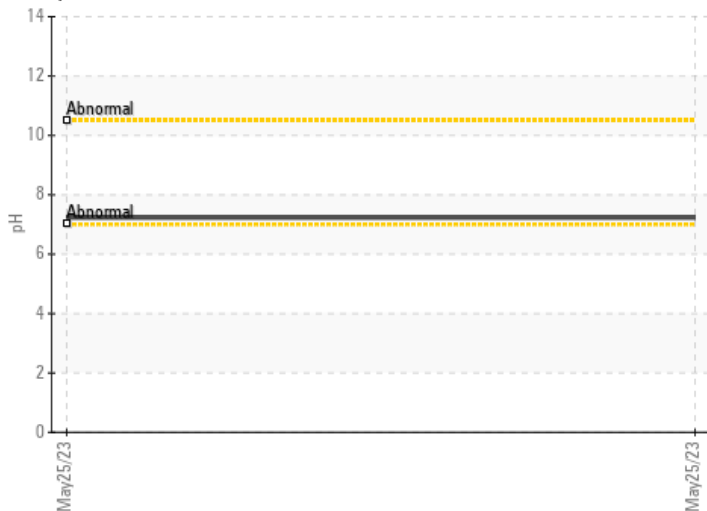
Copper/Aluminum/Lead



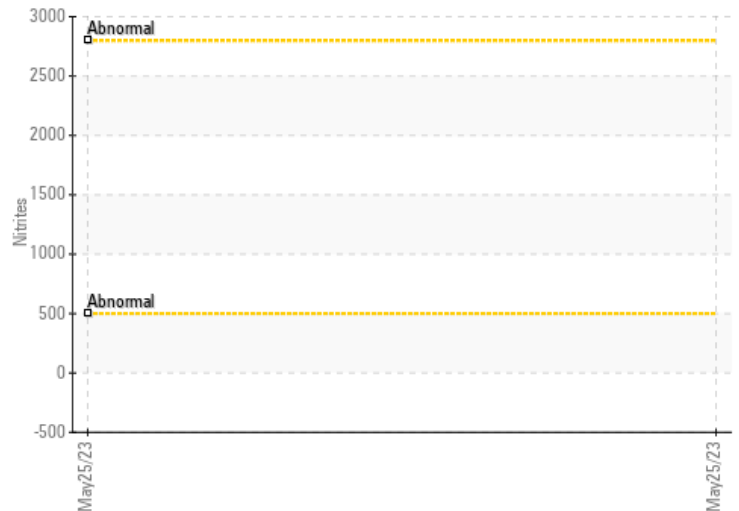
Freeze Point



pH



Nitrites





CONSTRUCTION EQUIPMENT

716433 APTIM VOLVO A35G 340236 - DIESEL ENGINE



Sample No: VCP454856
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 716433 APTIM



SAMPLE INFORMATION

Sample Number	VCP454856	VCP437936	VCP440002	VCP435656
Sample Date	22 May 2024	12 Mar 2024	26 Feb 2024	25 Oct 2023
Machine Hours	8569	8945	7992	7463
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	11.8	11.7	12.0	12.1
Base Number (BN)	mg KOH/g	8.9	9.6	9.1	8.7
Oxidation (PA)	%	74	81	80	76



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.3	0.3
Nitration (PA)	%	70	69	70	67
Sulfation (PA)	%	58	60	59	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	5	6	6
Sodium	ppm	3	2	3	3
Potassium	ppm	<1	<1	2	0



WEAR METALS

Iron	ppm	9	8	8	7
Copper	ppm	2	1	2	1
Lead	ppm	2	2	1	<1
Tin	ppm	<1	<1	1	<1
Aluminum	ppm	4	2	5	3
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	39	41	42	42
Nickel	ppm	<1	2	3	1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	<1	<1



ADDITIVES

Calcium	ppm	1617	1846	1626	1579
Magnesium	ppm	565	540	527	526
Zinc	ppm	1097	1222	1110	1123
Phosphorus	ppm	944	972	912	931
Barium	ppm	0	0	0	0
Boron	ppm	22	24	24	22

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

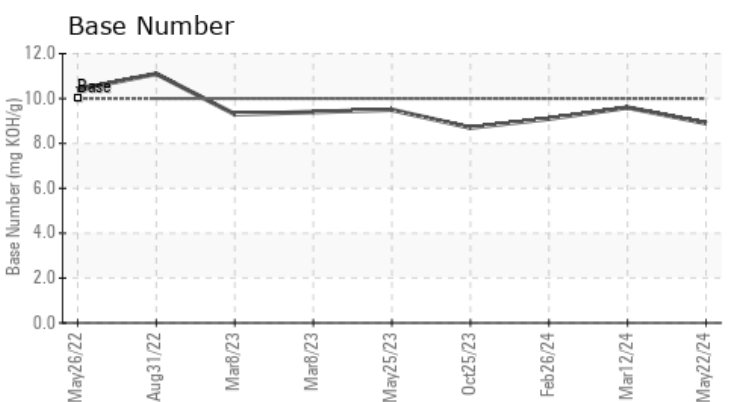
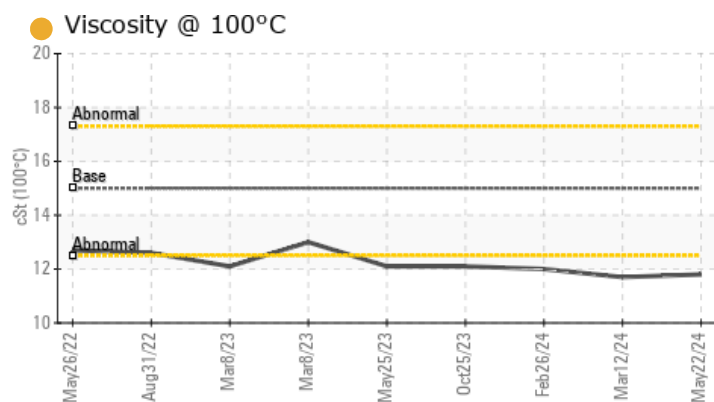
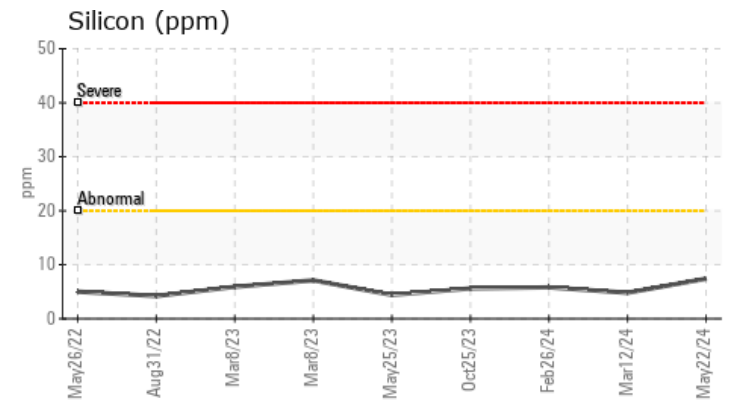
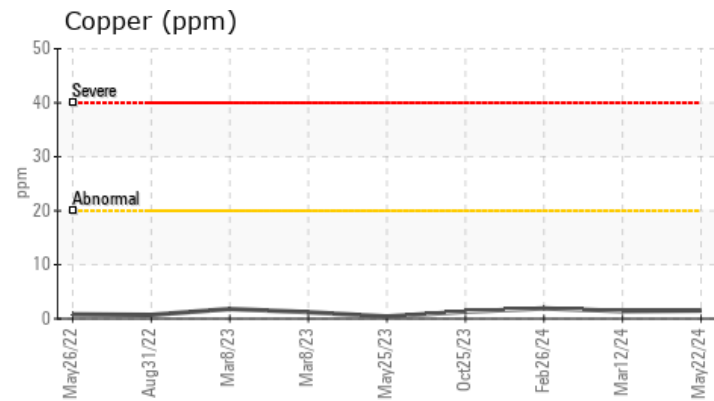
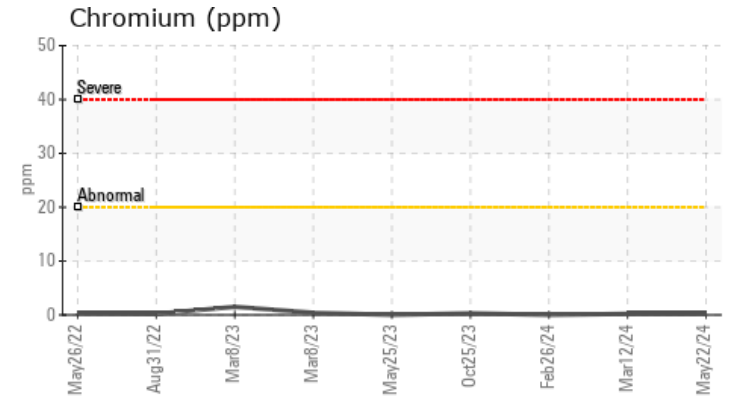
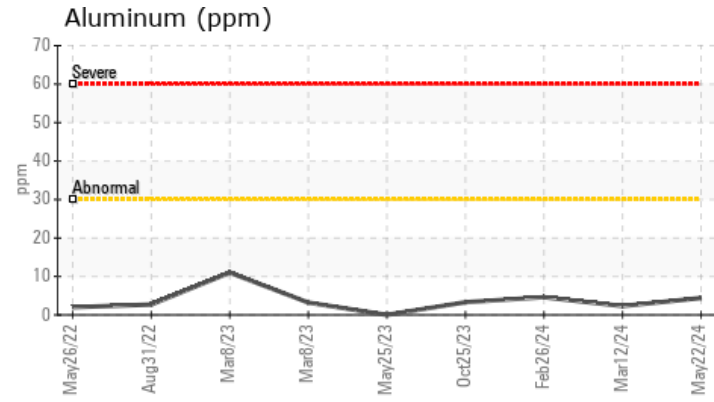
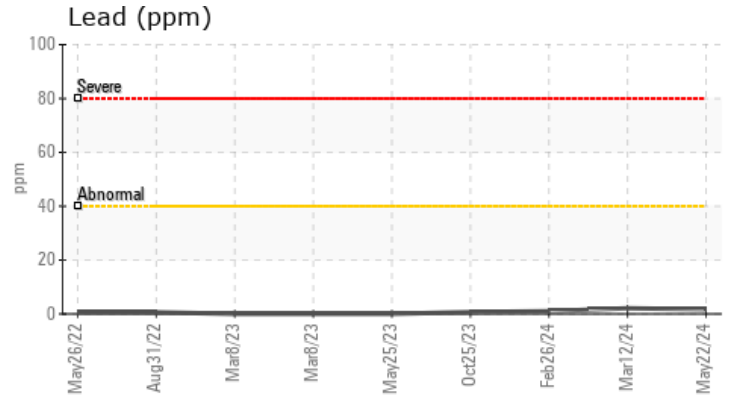
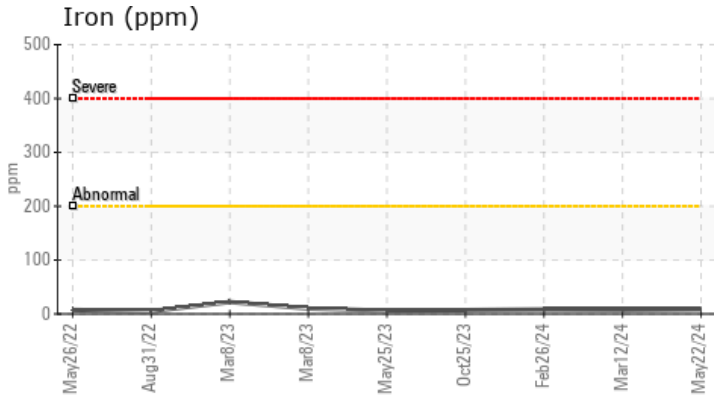
Depot: VOLVO0093
Unique No: 11071682
Signed: Sean Felton
Report Date: 12 Jun 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS





CONSTRUCTION EQUIPMENT

716433 APTIM VOLVO A35G 340236 - TRANSMISSION (AUTO)



Sample No: VCP451485
Oil Type: VOLVO AUTOMATIC TRANSMISSION FLUID AT102
Job No: 716433 APTIM



SAMPLE INFORMATION

Sample Number	VCP451485	VCP437898	VCP444169	VCP435999
Sample Date	22 May 2024	12 Mar 2024	26 Feb 2024	25 Oct 2023
Machine Hours	8569	8945	7992	7463
Oil Hours	500	1000	2000	1400
Oil Changed	Not Chngd	Changed	Changed	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	27.8	28.6	26.9	28.2
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	5	5	3	4
Sodium	ppm	5	2	3	3
Potassium	ppm	3	0	2	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 fluid. The condition of the fluid is acceptable for the time in service.



WEAR METALS

Iron	ppm	18	38	10	13
Copper	ppm	5	12	3	5
Lead	ppm	0	0	0	0
Tin	ppm	2	2	2	1
Aluminum	ppm	17	15	10	12
Chromium	ppm	0	0	0	0
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	2	1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	73	79	70	63
Magnesium	ppm	1	1	2	0
Zinc	ppm	11	6	2	1
Phosphorus	ppm	190	218	119	182
Barium	ppm	<1	0	0	0
Boron	ppm	102	88	89	82

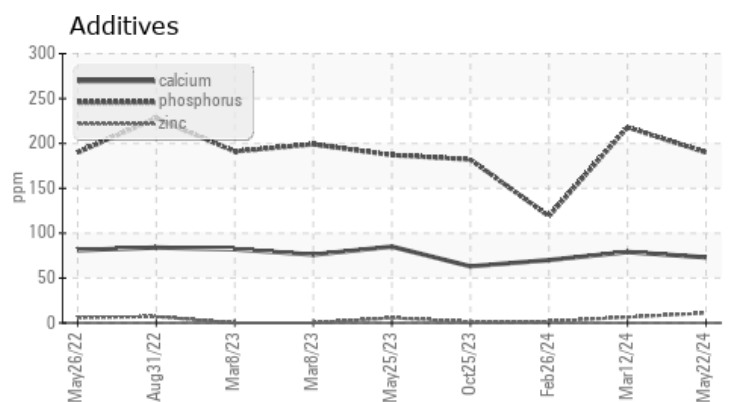
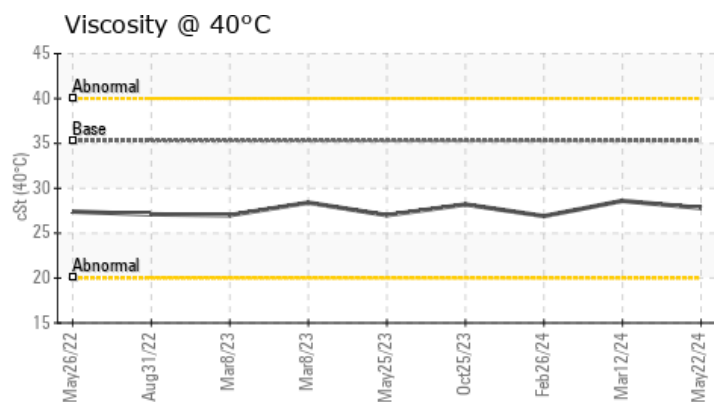
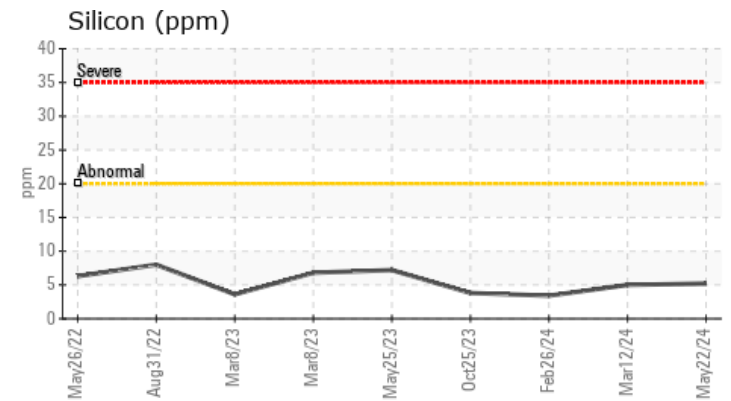
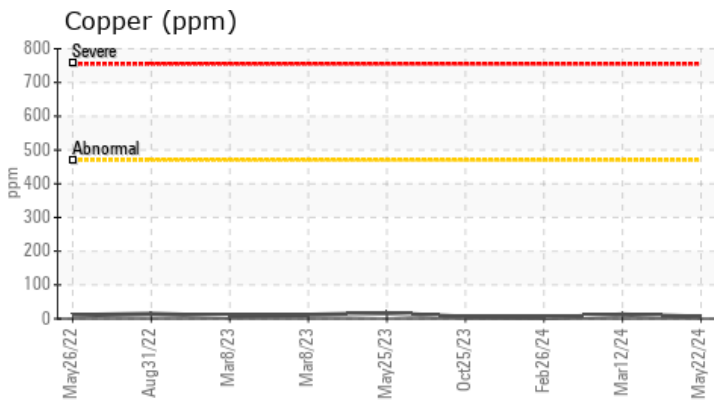
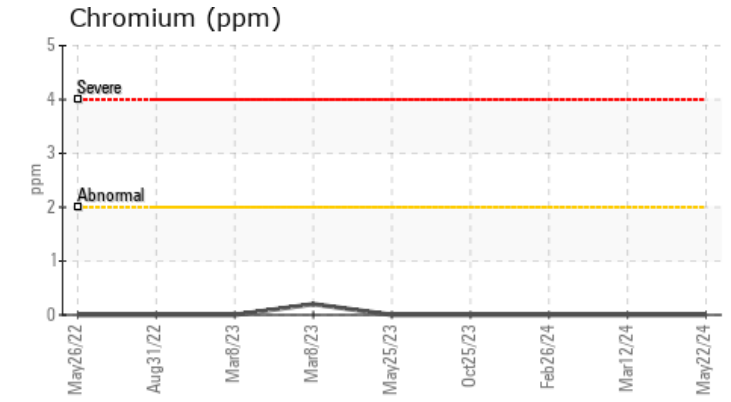
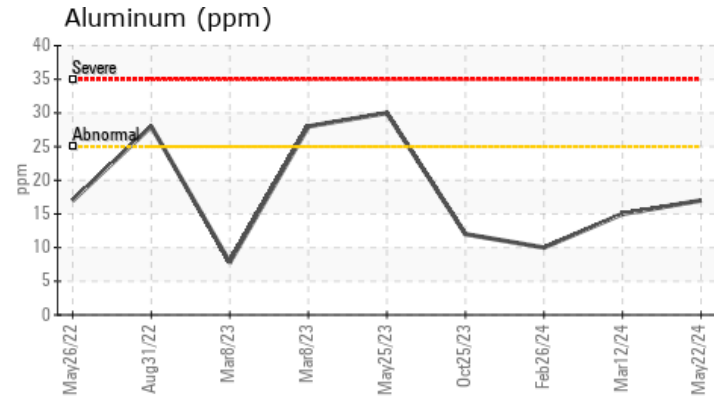
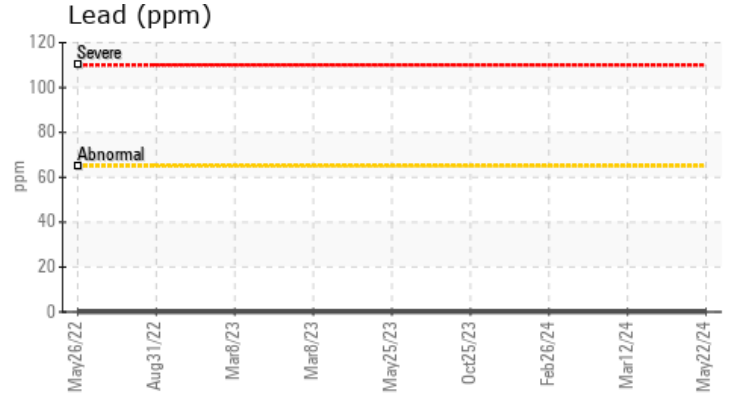
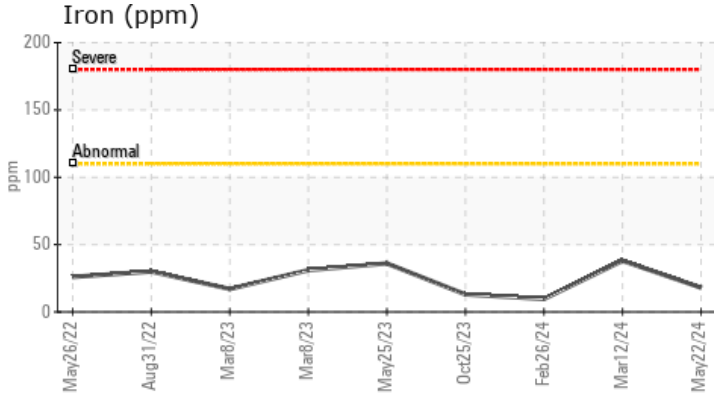
Depot: VOLVO0093
Unique No: 11072678
Signed: Doug Bogart
Report Date: 12 Jun 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS





CONSTRUCTION EQUIPMENT

687121 APTIM VOLVO A35G 340236 - BRAKE COOLING SYSTEM



Sample No: VCP444156
Oil Type: VOLVO WB 102
Job No: 687121 APTIM



SAMPLE INFORMATION

Sample Number	VCP444156	VCP444135	VCP424416	VCP353529
Sample Date	12 Mar 2024	26 Feb 2024	25 May 2023	31 Aug 2022
Machine Hours	8945	7992	6888	5673
Oil Hours	3500	3000	4000	1600
Oil Changed	Not Chngd	Changed	Changed	Not Chngd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	43.4	43.4	41.6	41.0
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	13	13	13	16
Sodium	ppm	4	4	0	3
Potassium	ppm	0	<1	2	2

Diagnosis

No corrective action is recommended at this time. We recommend an early resample to monitor this condition. The copper level is abnormal. The iron level is abnormal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.



WEAR METALS

Iron	ppm	56	30	32	30
Copper	ppm	352	270	478	589
Lead	ppm	6	1	1	2
Tin	ppm	<1	<1	0	0
Aluminum	ppm	1	2	0	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	2	<1	<1	0
Nickel	ppm	6	4	6	3
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	3	2	2	2
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	3345	3366	3416	3906
Magnesium	ppm	24	11	5	6
Zinc	ppm	1460	1405	1409	1601
Phosphorus	ppm	1431	1294	1306	1451
Barium	ppm	<1	0	0	2
Boron	ppm	121	107	112	135

Depot: VOLVO0093
Unique No: 10976320
Signed: Don Baldrige
Report Date: 15 Apr 2024

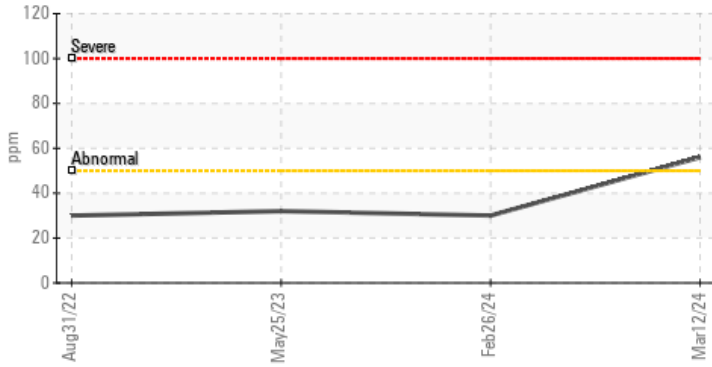


CONSTRUCTION EQUIPMENT

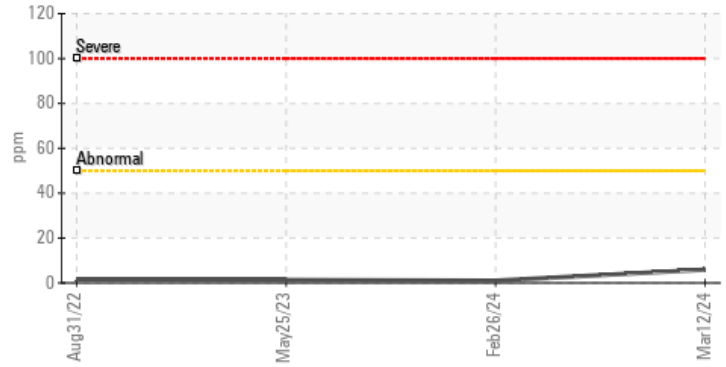


GRAPHS

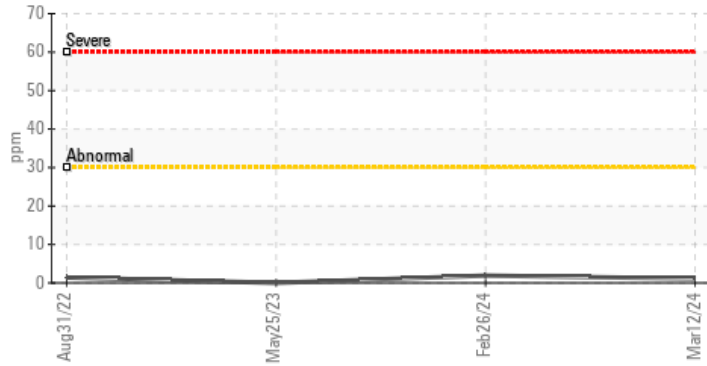
▲ Iron (ppm)



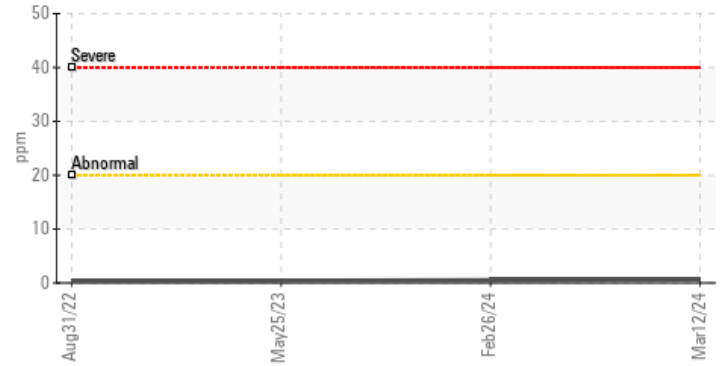
Lead (ppm)



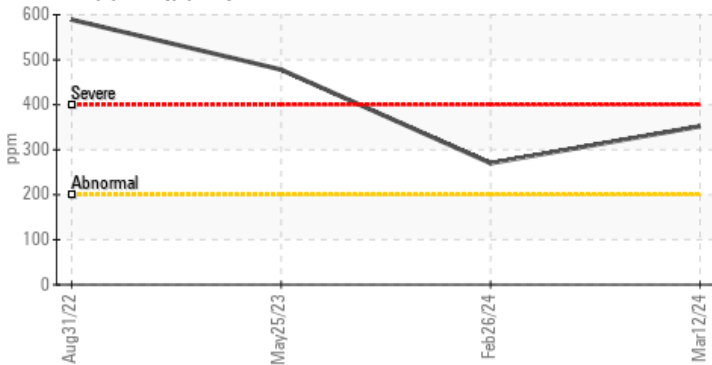
Aluminum (ppm)



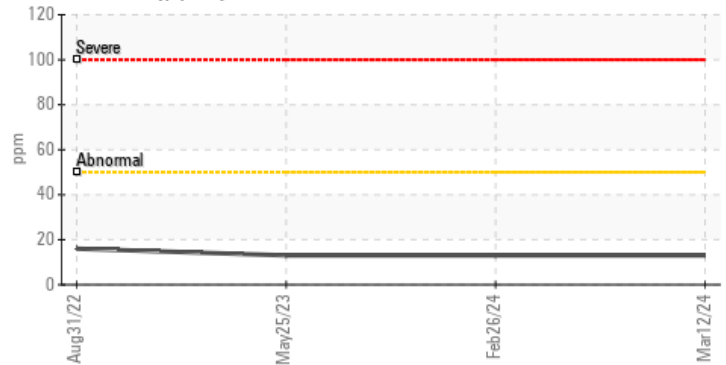
Chromium (ppm)



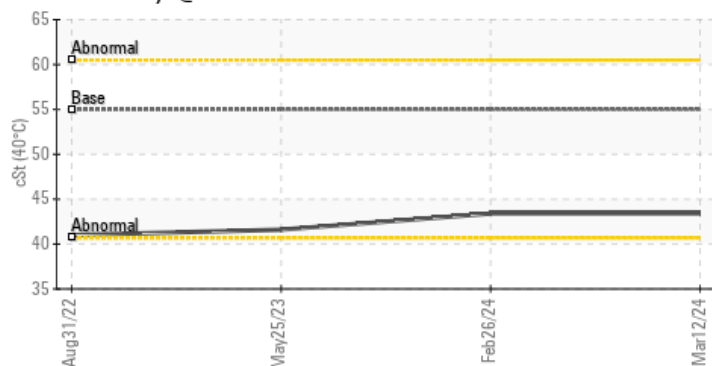
▲ Copper (ppm)



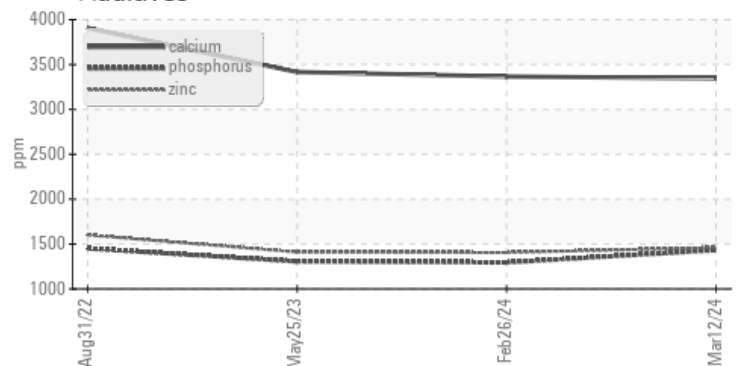
Silicon (ppm)



Viscosity @ 40°C



Additives





CONSTRUCTION EQUIPMENT

687521 APTIM VOLVO A35G 340236 - HYDRAULIC SYSTEM



Sample No: VCP437933
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 687521 APTIM



SAMPLE INFORMATION

Sample Number	VCP437933	VCP444139	VCP410231	VCP354021
Sample Date	12 Mar 2024	26 Feb 2024	25 May 2023	31 Aug 2022
Machine Hours	8945	7992	6888	5673
Oil Hours	3000	4000	4000	1600
Oil Changed	Not Chngd	Changed	Changed	Not Chngd
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	41.2	40.8	40.3	39.4
Acid Number (AN)	mg KOH/g	0.44	0.45	0.42	0.43



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		3040	5442	---	3968
Particles >6µm		781	847	---	609
Particles >14µm		56	21	---	25
ISO 4406:1999 (c)		19/17/13	20/17/12	---	19/16/12
Silicon	ppm	4	5	4	4
Sodium	ppm	4	4	3	3
Potassium	ppm	0	<1	0	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	18	18	16
Copper	ppm	8	20	18	22
Lead	ppm	2	3	2	4
Tin	ppm	0	<1	0	<1
Aluminum	ppm	<1	2	0	1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	0	5	4	<1
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	91	186	177	151
Magnesium	ppm	9	17	12	2
Zinc	ppm	367	431	412	446
Phosphorus	ppm	290	279	343	337
Barium	ppm	2	0	0	0
Boron	ppm	0	4	4	1

Depot: VOLVO0093
Unique No: 10975873
Signed: Wes Davis
Report Date: 12 Apr 2024

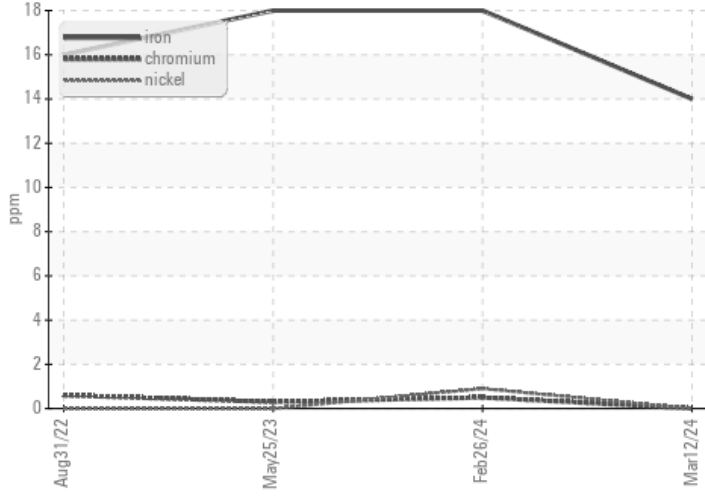


CONSTRUCTION EQUIPMENT

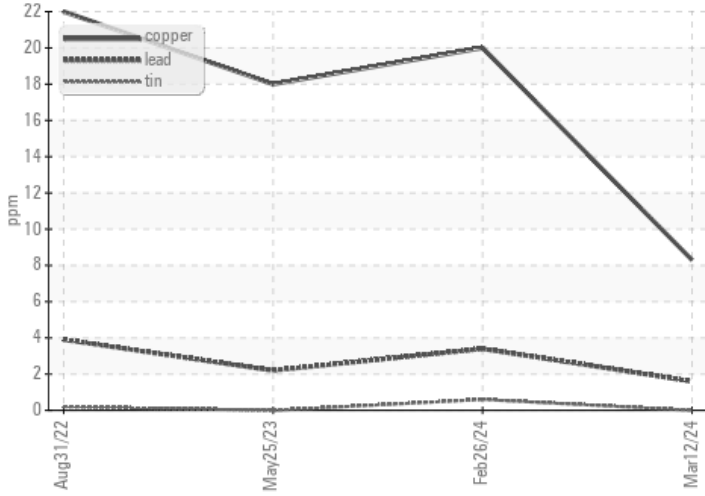


VOLVO GRAPHS

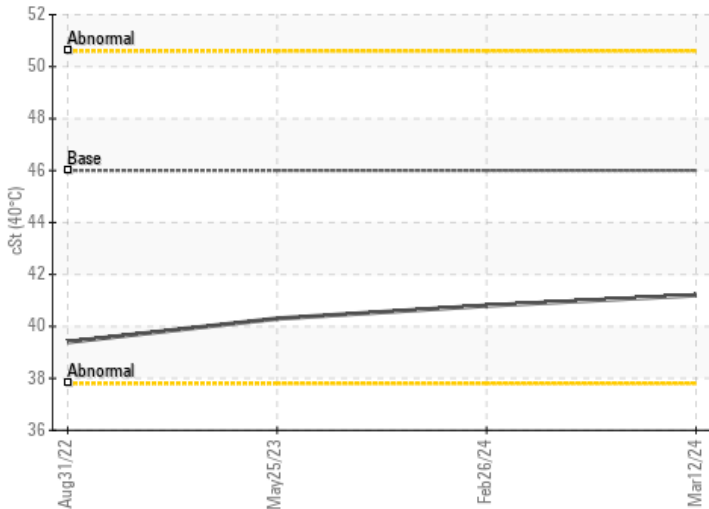
Ferrous Alloys



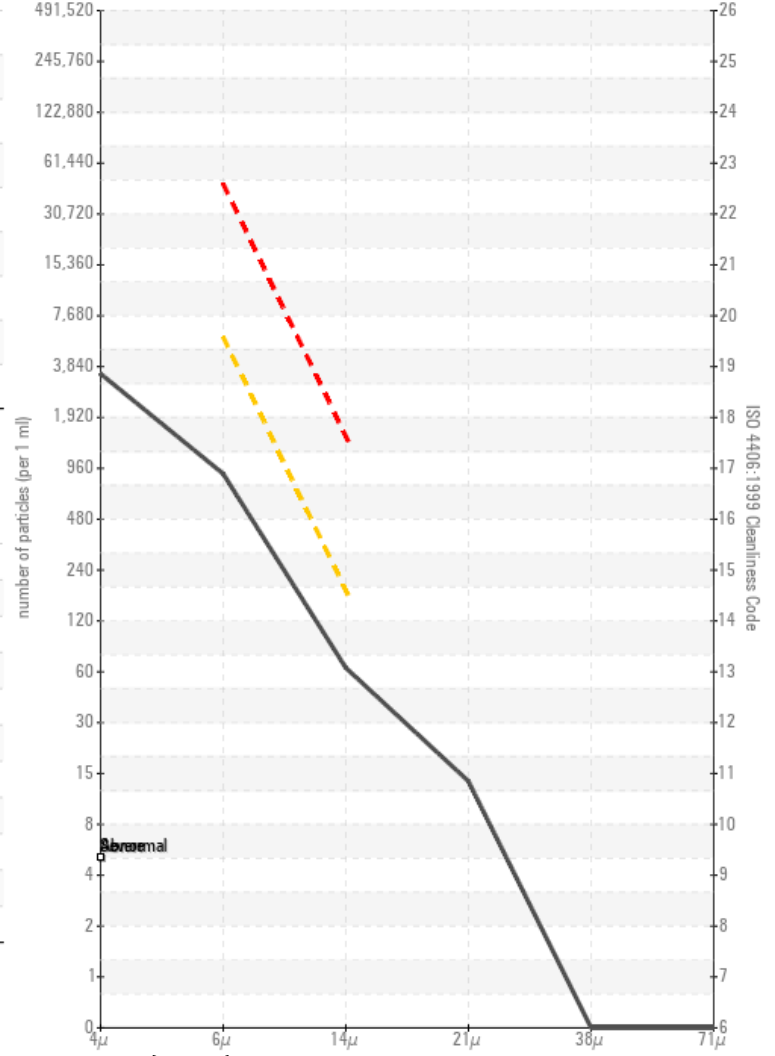
Non-ferrous Metals



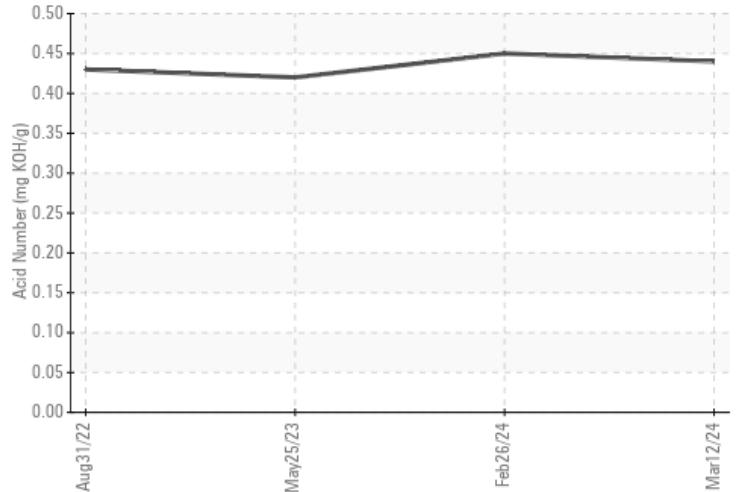
Viscosity @ 40°C



Particle Count



Acid Number





CONSTRUCTION EQUIPMENT

687121 APTIM VOLVO A35G 340236 - FRONT AXLE



Sample No: VCP437940
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 687121 APTIM



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SAMPLE INFORMATION

Sample Number	VCP437940	VCP437886	VCP424160	VCP353525
Sample Date	12 Mar 2024	26 Feb 2024	25 May 2023	31 Aug 2022
Machine Hours	8945	7992	6888	5673
Oil Hours	3000	4000	4000	1600
Oil Changed	Not Chngd	Changed	Changed	Not Chngd
Sample Status	ATTENTION	ATTENTION	ATTENTION	ABNORMAL



OIL CONDITION

Visc @ 40°C	cSt	53.8	52.2	51.3	52.0



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	6	8	3	4
Sodium	ppm	2	5	0	<1
Potassium	ppm	0	2	1	2



WEAR METALS

Iron	ppm	571	496	207	185
Copper	ppm	4	8	6	5
Lead	ppm	0	<1	0	0
Tin	ppm	0	<1	0	0
Aluminum	ppm	<1	2	0	<1
Chromium	ppm	7	6	2	2
Molybdenum	ppm	8	11	4	4
Nickel	ppm	3	3	2	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	20	19	10	10
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	39	88	56	108
Magnesium	ppm	3	2	<1	<1
Zinc	ppm	81	76	48	65
Phosphorus	ppm	2647	2635	2431	2583
Barium	ppm	0	0	0	2
Boron	ppm	128	127	117	136

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 oil viscosity is lower than normal. Confirm oil type.

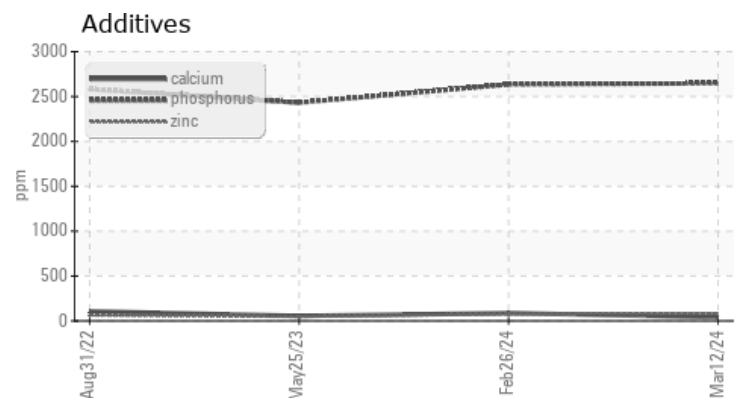
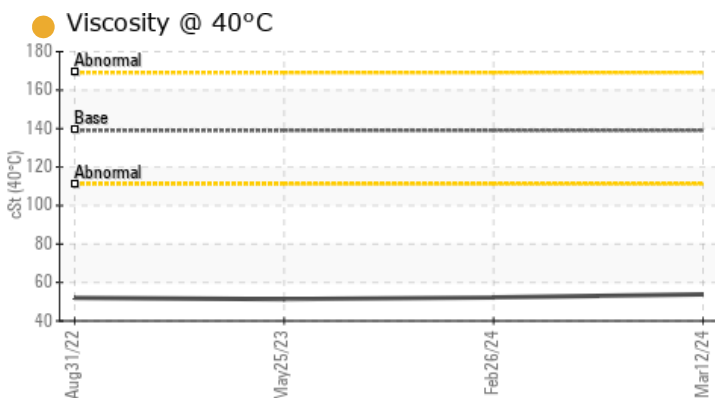
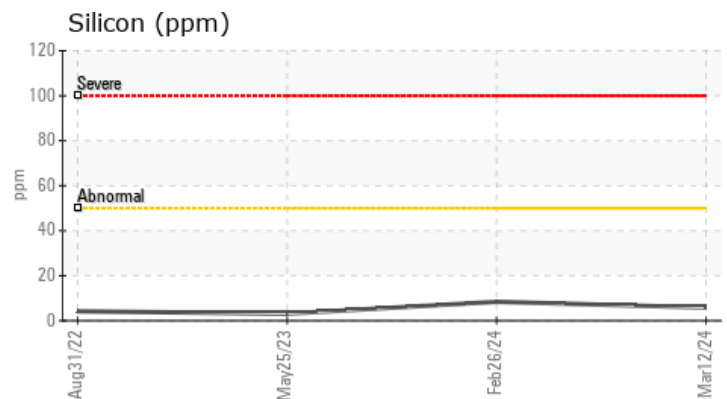
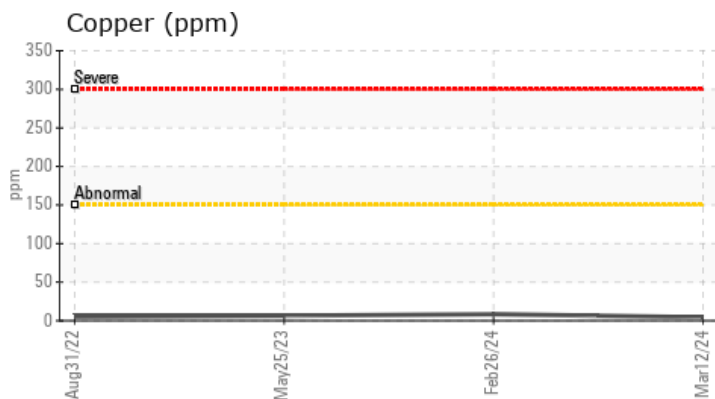
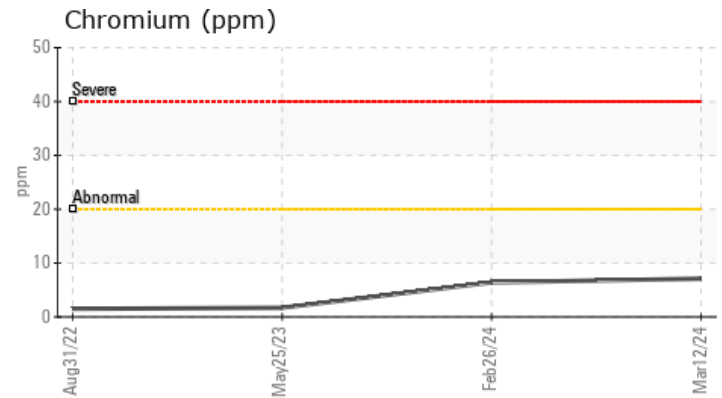
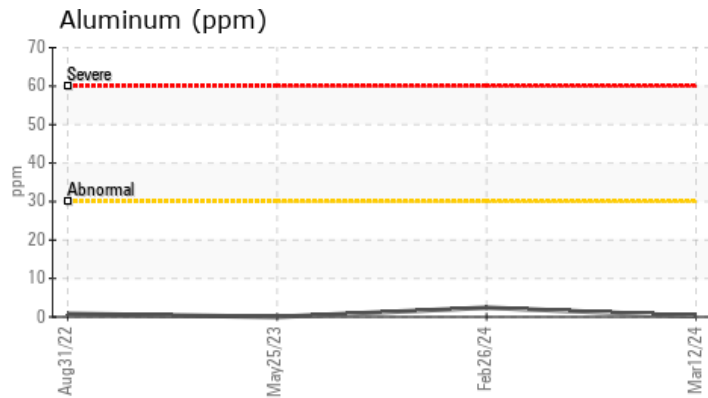
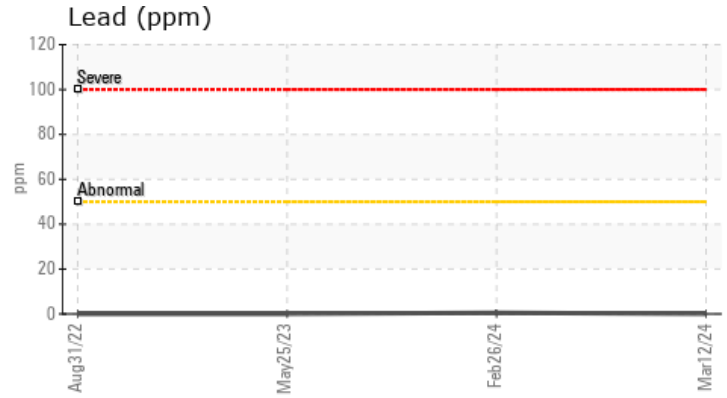
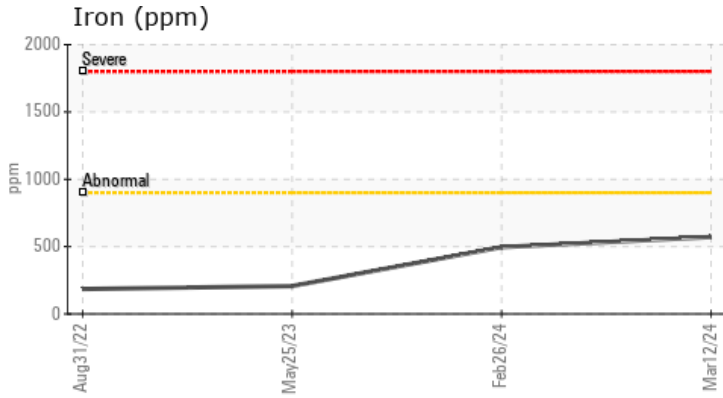
Depot: VOLVO0093
Unique No: 10976329
Signed: Don Baldrige
Report Date: 15 Apr 2024



CONSTRUCTION EQUIPMENT



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CONSTRUCTION EQUIPMENT

687121 APTIM VOLVO A35G 340236 - BOGIE/CENTER AXLE



Sample No: VCP444167
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 687121 APTIM



SAMPLE INFORMATION

Sample Number	VCP444167	VCP437880	VCP392730	VCP353526
Sample Date	12 Mar 2024	26 Feb 2024	25 May 2023	31 Aug 2022
Machine Hours	8945	7992	6888	5673
Oil Hours	3000	4000	4000	1600
Oil Changed	Not Chngd	Changed	Changed	Not Chngd
Sample Status	ATTENTION	ATTENTION	ATTENTION	ABNORMAL

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
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 TAMPA, FL
 US 33619
 Contact: JOHN FARDELLA
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 T: (813)630-0077
 F: (813)630-2233



OIL CONDITION

Visc @ 40°C	cSt	51.5	51.7	51.9	51.8
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	5	5	3	4
Sodium	ppm	1	2	0	<1
Potassium	ppm	0	1	1	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 oil viscosity is lower than normal. Confirm oil type.



WEAR METALS

Iron	ppm	499	300	203	173
Copper	ppm	27	11	8	6
Lead	ppm	<1	<1	0	0
Tin	ppm	0	<1	0	0
Aluminum	ppm	<1	2	0	<1
Chromium	ppm	6	4	2	2
Molybdenum	ppm	6	6	5	3
Nickel	ppm	2	2	1	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	13	11	9	9
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	383	64	48	37
Magnesium	ppm	3	2	<1	<1
Zinc	ppm	186	44	37	32
Phosphorus	ppm	2444	2153	2398	2754
Barium	ppm	1	0	0	2
Boron	ppm	138	109	154	169

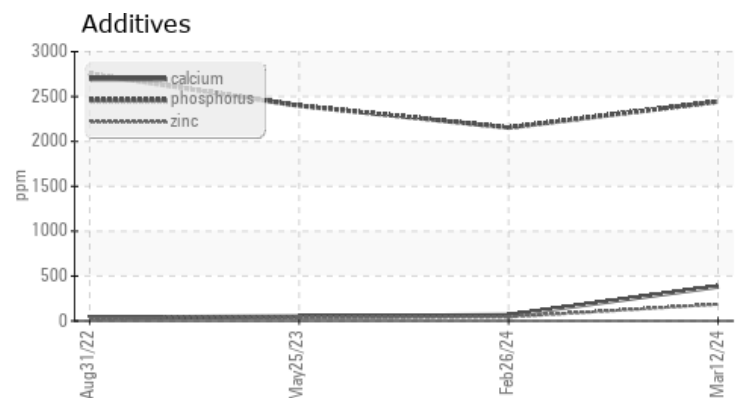
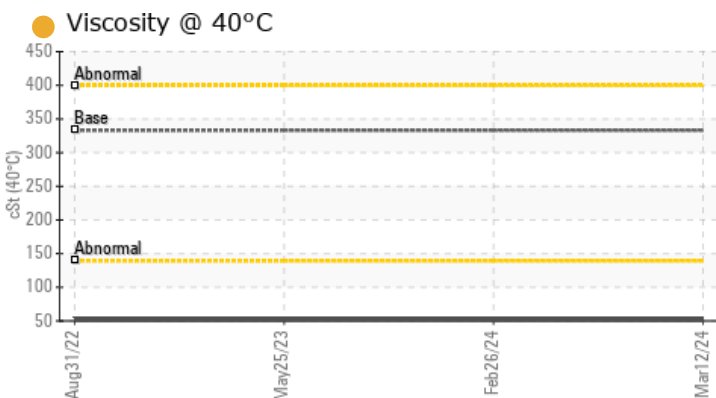
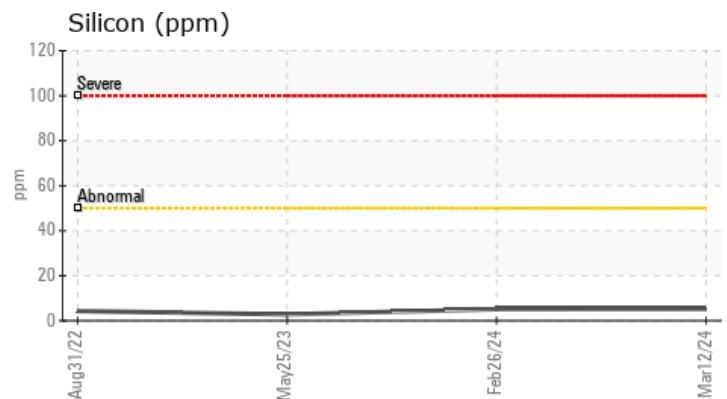
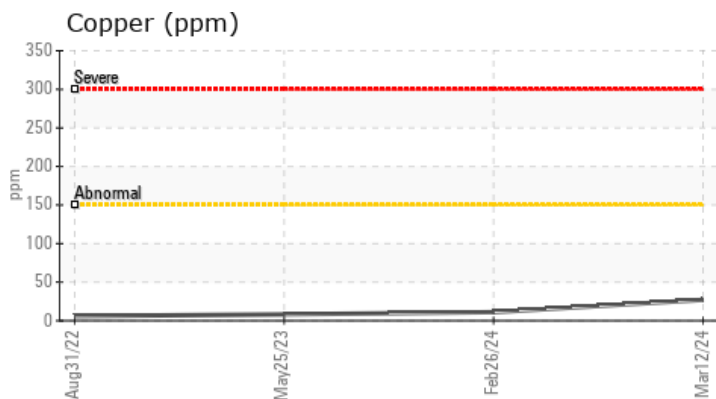
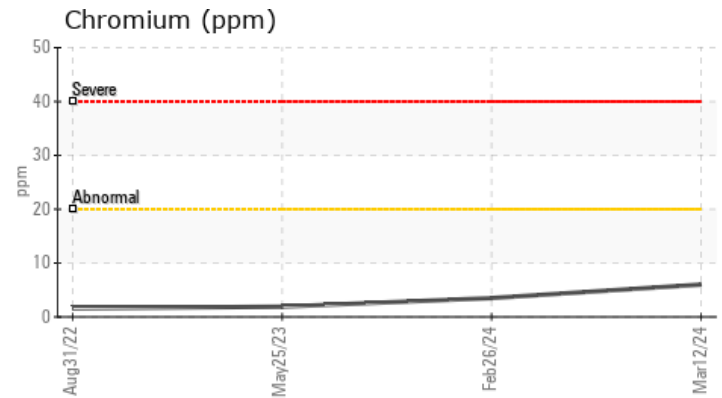
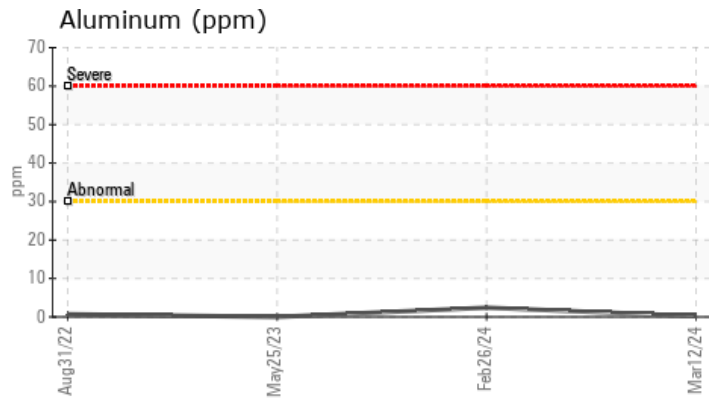
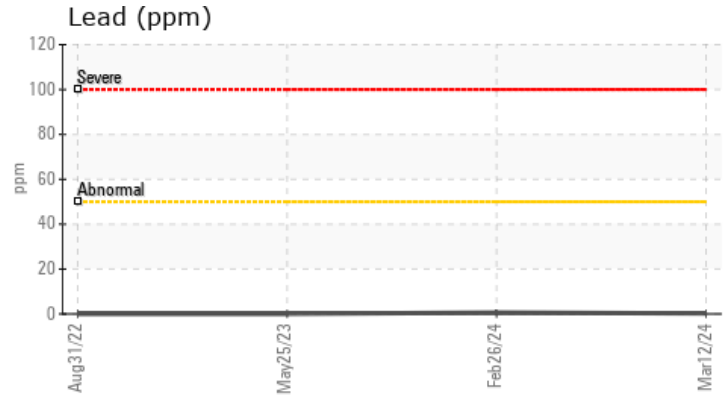
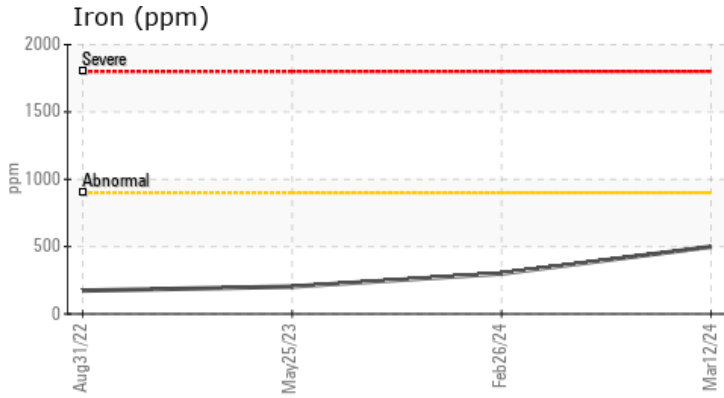
Depot: VOLVO0093
Unique No: 10976323
Signed: Don Baldrige
Report Date: 15 Apr 2024



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CONSTRUCTION EQUIPMENT

687121 APTIM VOLVO A35G 340236 - REAR AXLE



Sample No: VCP444170
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 687121 APTIM



SAMPLE INFORMATION

Sample Number	VCP444170	VCP440003	VCP424154	VCP354035
Sample Date	12 Mar 2024	26 Feb 2024	25 May 2023	31 Aug 2022
Machine Hours	8945	7992	6888	5673
Oil Hours	3000	4000	4000	1600
Oil Changed	Not Chngd	Changed	Changed	Not Chngd
Sample Status	ATTENTION	ABNORMAL	SEVERE	ABNORMAL

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 F: (813)630-2233



OIL CONDITION

Visc @ 40°C	cSt	51.9	307	52.0	52.8
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CONTAMINATION

Water	%	NEG	NEG	▲ 0.428	NEG
Silicon	ppm	■ 17	▲ 109	▲ 339	■ 4
Sodium	ppm	■ 2	■ 3	■ 2	■ <1
Potassium	ppm	■ 0	■ 9	■ 12	■ 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 oil viscosity is lower than normal. Confirm oil type.



WEAR METALS

Iron	ppm	■ 778	▲ 925	▲ 1687	■ 172
Copper	ppm	■ 9	■ 27	■ 43	■ 7
Lead	ppm	■ 0	■ <1	■ 0	■ 0
Tin	ppm	■ 0	■ 0	■ 0	■ 0
Aluminum	ppm	■ <1	● 19	● 284	■ <1
Chromium	ppm	■ 9	■ 12	■ 13	■ 2
Molybdenum	ppm	■ 8	■ 16	■ 2	■ 3
Nickel	ppm	■ 4	■ 3	▲ 11	■ 0
Titanium	ppm	0	2	▲ 15	0
Silver	ppm	0	<1	0	0
Manganese	ppm	■ 19	■ 23	■ 21	■ 9
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	■ 36	■ 138	■ 42	■ 47
Magnesium	ppm	■ 2	■ 37	■ 13	■ 1
Zinc	ppm	■ 60	■ 99	■ 33	■ 37
Phosphorus	ppm	■ 2623	■ 1090	■ 2089	■ 2675
Barium	ppm	■ <1	■ 0	■ 0	■ 2
Boron	ppm	■ 129	■ 179	■ 54	■ 173

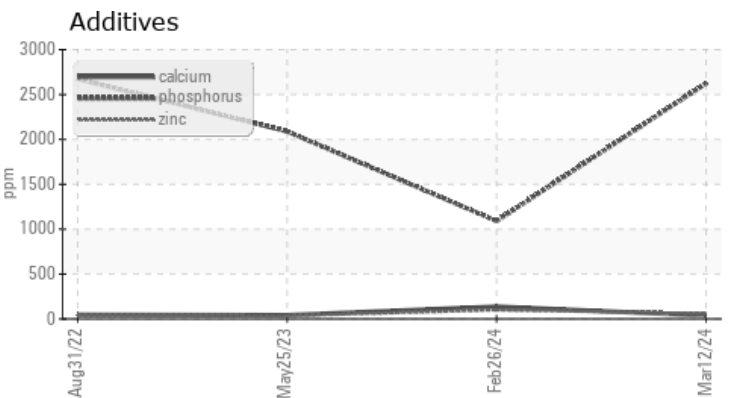
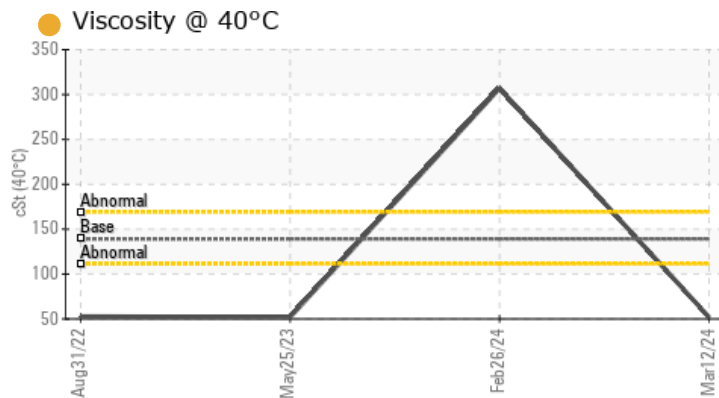
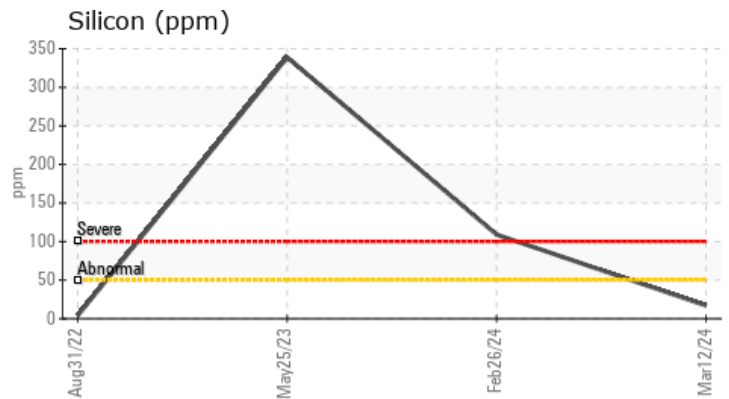
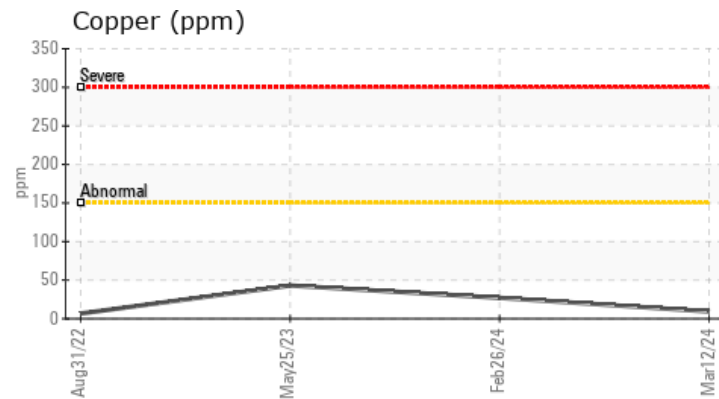
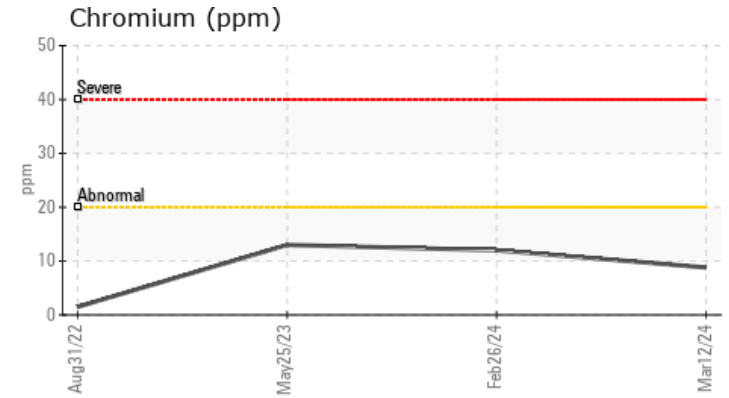
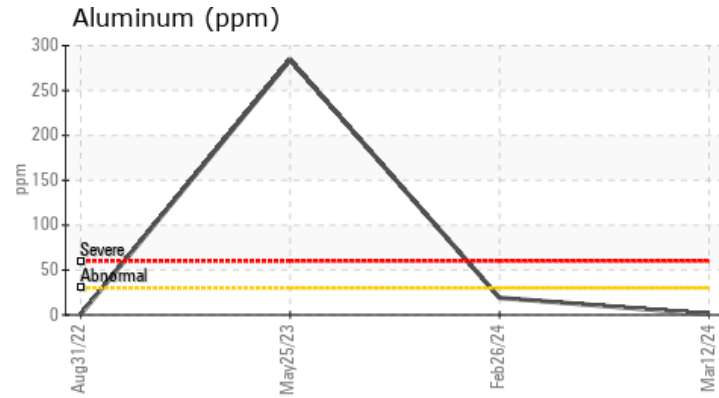
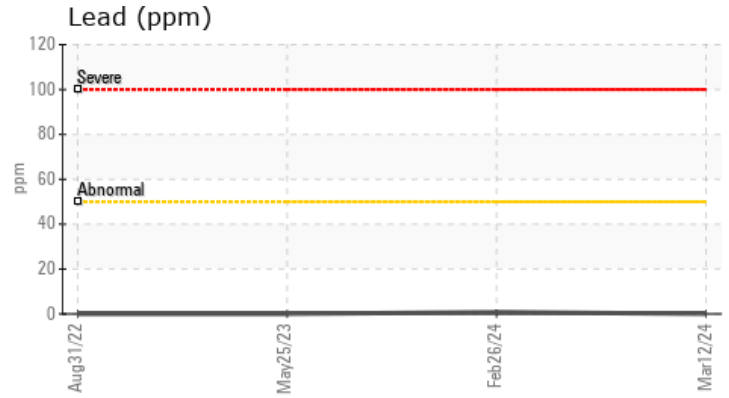
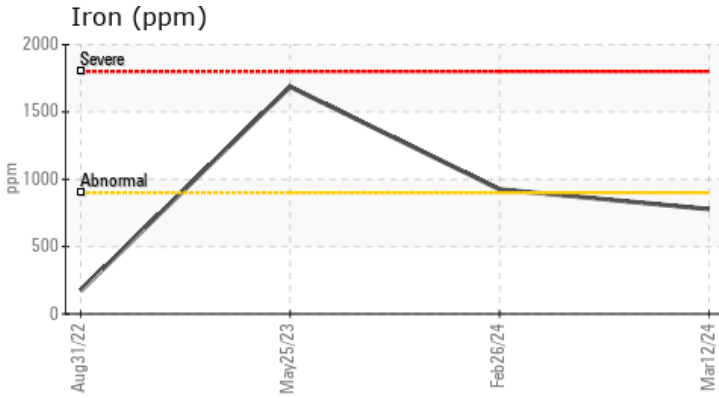
Depot: VOLVO0093
Unique No: 10976304
Signed: Don Baldrige
Report Date: 15 Apr 2024



CONSTRUCTION EQUIPMENT



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CONSTRUCTION EQUIPMENT

687521 APTIM VOLVO A35G 340236 - DROP BOX



Sample No: VCP444133
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 687521 APTIM



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
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 TAMPA, FL
 US 33619
 Contact: JOHN FARDELLA
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 T: (813)630-0077
 F: (813)630-2233



SAMPLE INFORMATION

Sample Number	VCP444133	VCP445395	VCP424161	VCP364304
Sample Date	12 Mar 2024	26 Feb 2024	25 May 2023	31 Aug 2022
Machine Hours	8945	7992	6888	5673
Oil Hours	3000	4000	4000	1600
Oil Changed	Not Chngd	Changed	Changed	Not Chngd
Sample Status	ATTENTION	ATTENTION	ATTENTION	ABNORMAL



OIL CONDITION

Visc @ 40°C	cSt	49.7	53.2	47.8	48.4



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	34	21	31	37
Sodium	ppm	3	15	0	1
Potassium	ppm	0	2	2	2



WEAR METALS

Iron	ppm	204	77	109	107
Copper	ppm	3	3	5	10
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	<1	<1	0
Aluminum	ppm	22	10	11	10
Chromium	ppm	2	2	1	1
Molybdenum	ppm	3	1	<1	<1
Nickel	ppm	<1	<1	<1	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	9	3	4	4
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	31	31	17	91
Magnesium	ppm	51	16	45	53
Zinc	ppm	175	55	93	94
Phosphorus	ppm	2497	1084	2374	2676
Barium	ppm	1	0	0	2
Boron	ppm	117	60	97	77

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 no indication of any contamination in the oil. The oil viscosity is lower than normal. Confirm oil type.

Depot: VOLVO0093
Unique No: 10976311
Signed: Don Baldrige
Report Date: 15 Apr 2024



CONSTRUCTION EQUIPMENT



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