



CONSTRUCTION EQUIPMENT

VOLVO L120H 632540 - DIESEL ENGINE



Sample No: VCP455175
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP455175	VCP454251	VCP445823	VCP442670
Sample Date	24 Apr 2024	29 Mar 2024	28 Feb 2024	22 Jan 2024
Machine Hours	16240	15812	15301	14655
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 @ 100°C	cSt	13.0	13.1	13.2	13.0
Base Number (BN)	mg KOH/g	10.2	10.4	9.8	9.4
Oxidation (PA)	%	81	83	83	87



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.3	0.4	0.6
Nitration (PA)	%	56	59	67	80
Sulfation (PA)	%	62	62	61	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	4	5
Sodium	ppm	2	2	2	3
Potassium	ppm	2	0	1	2



WEAR METALS

Iron	ppm	8	9	10	17
Copper	ppm	<1	1	1	3
Lead	ppm	0	<1	<1	2
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	4	4	6	9
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	39	42	42	49
Nickel	ppm	0	0	<1	1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	<1	<1	<1



ADDITIVES

Calcium	ppm	1613	1824	1651	1676
Magnesium	ppm	491	530	559	536
Zinc	ppm	1109	1110	1210	1177
Phosphorus	ppm	953	925	972	1008
Barium	ppm	0	0	0	0
Boron	ppm	40	31	26	24

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.

Depot: VOLVO0090
Unique No: 11004817
Signed: Wes Davis
Report Date: 01 May 2024

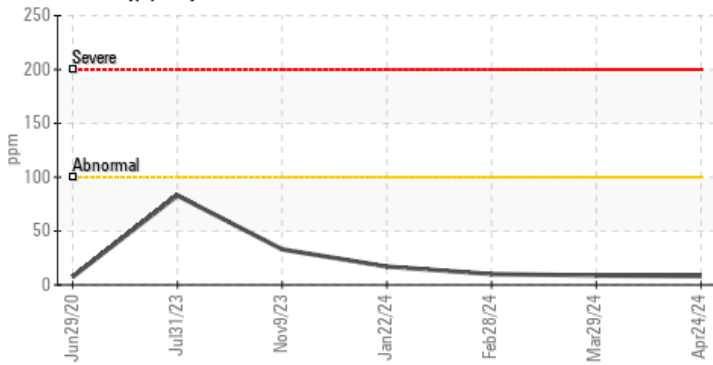


CONSTRUCTION EQUIPMENT

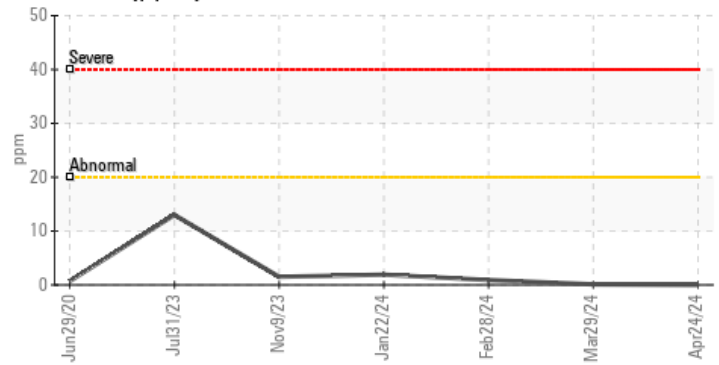


GRAPHS

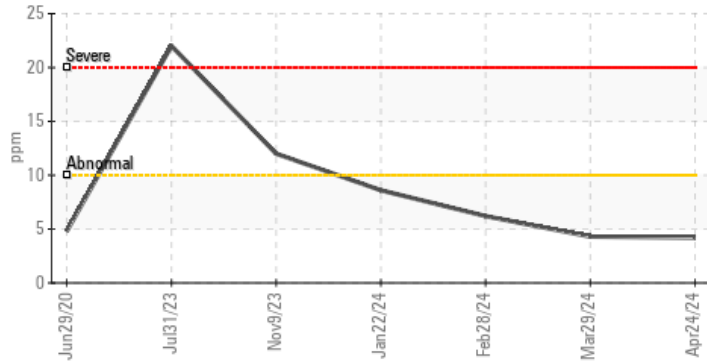
Iron (ppm)



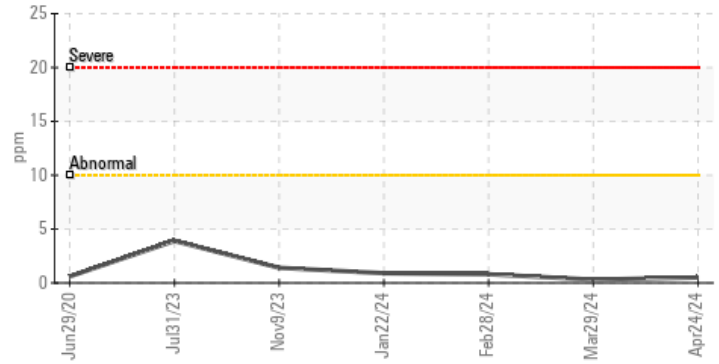
Lead (ppm)



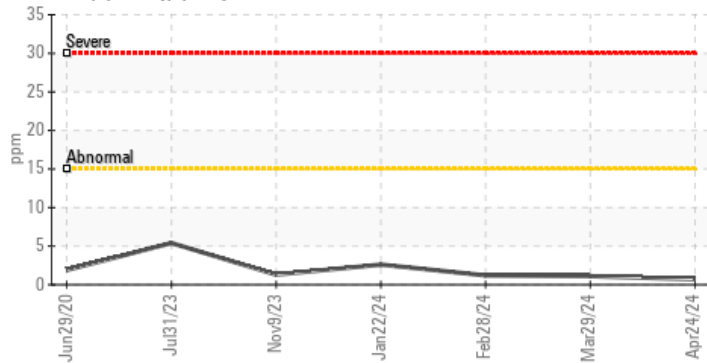
Aluminum (ppm)



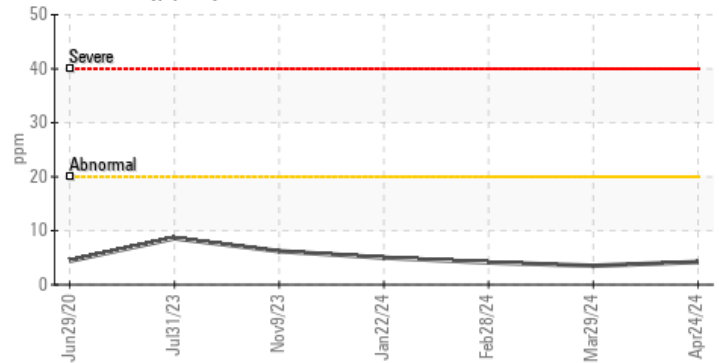
Chromium (ppm)



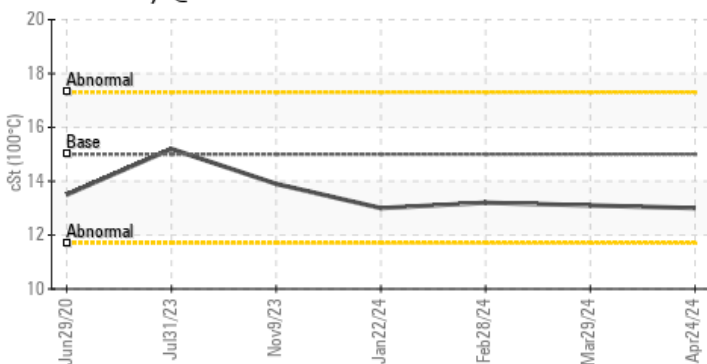
Copper (ppm)



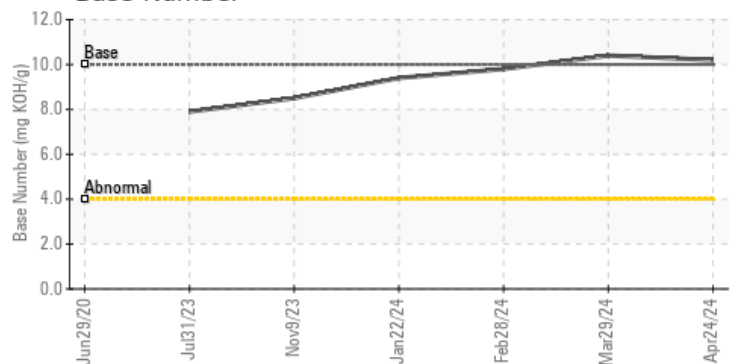
Silicon (ppm)



Viscosity @ 100°C



Base Number





CONSTRUCTION EQUIPMENT

VOLVO L120H 632540 - TRANSMISSION (AUTO)



Sample No: VCP455172
Oil Type: VOLVO AUTOMATIC TRANSMISSION FLUID AT102
Job No:



SAMPLE INFORMATION

Sample Number	VCP455172	VCP454246	VCP445826	VCP433505
Sample Date	24 Apr 2024	29 Mar 2024	28 Feb 2024	09 Nov 2023
Machine Hours	16240	15812	15301	13618
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	28.3	29.6	28.0	28.5
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	4	4	4	3
Sodium	ppm	4	3	3	2
Potassium	ppm	<1	0	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 fluid. The condition of the fluid is acceptable for the time in service.



WEAR METALS

Iron	ppm	18	16	17	12
Copper	ppm	55	53	56	50
Lead	ppm	<1	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	6	6	5	3
Chromium	ppm	0	0	0	0
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	103	95	109	88
Magnesium	ppm	<1	0	6	<1
Zinc	ppm	36	26	37	34
Phosphorus	ppm	215	208	211	186
Barium	ppm	0	0	0	0
Boron	ppm	75	73	69	70

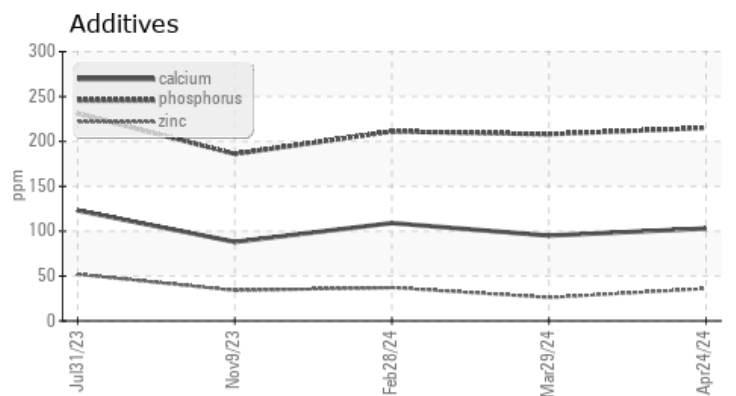
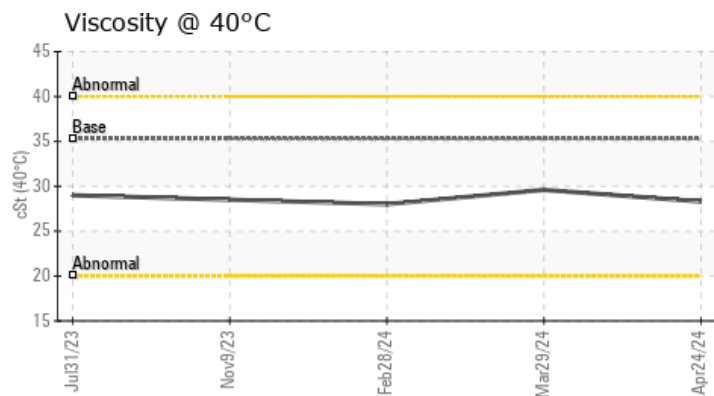
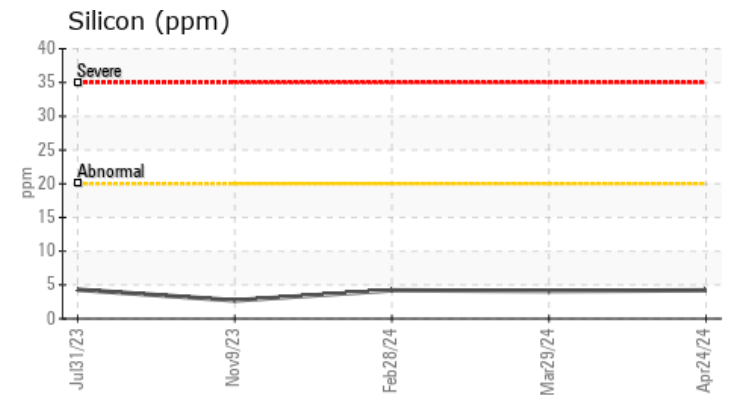
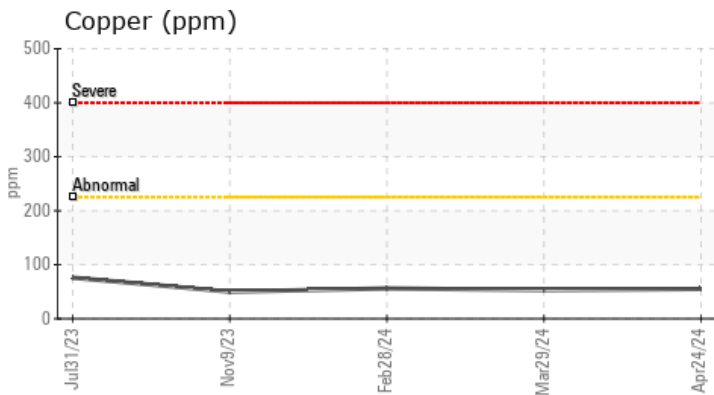
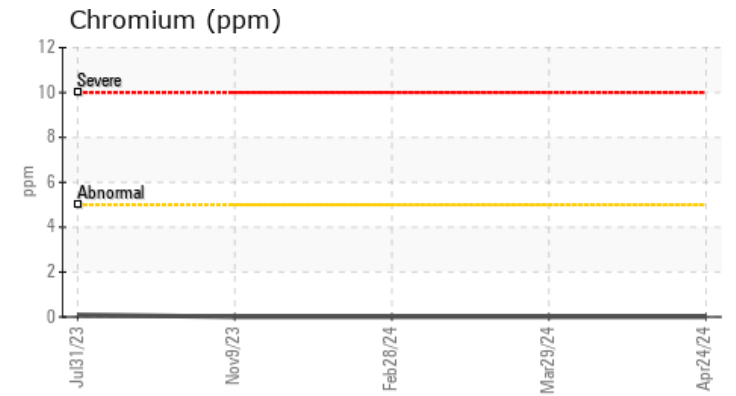
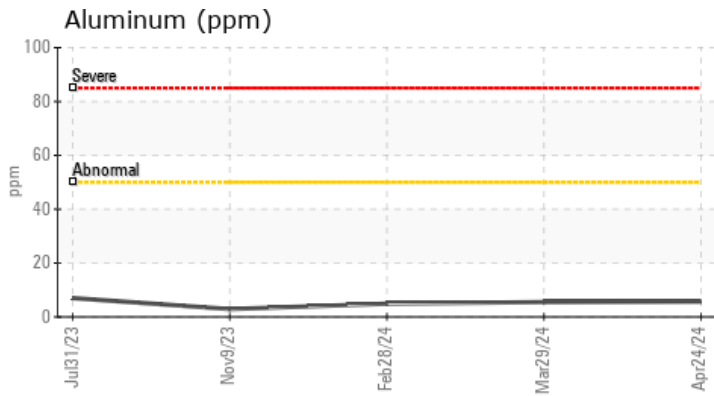
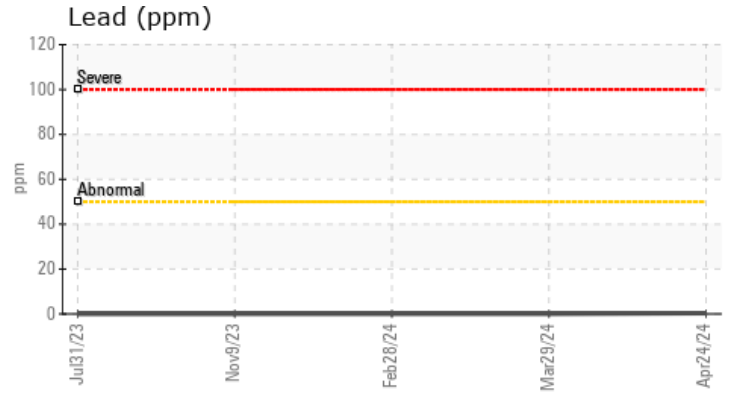
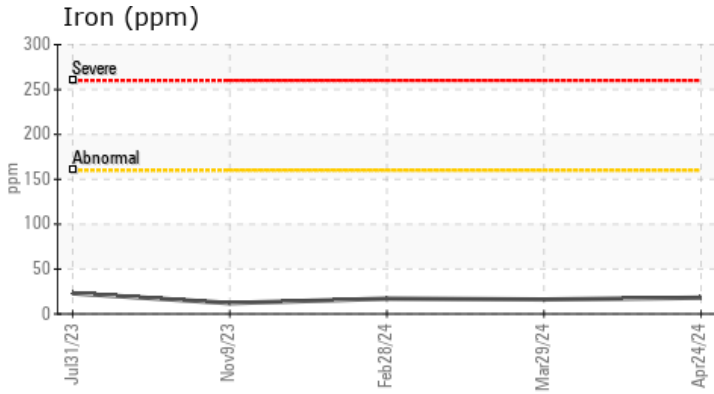
Depot: VOLVO0090
Unique No: 11005695
Signed: Wes Davis
Report Date: 01 May 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS





CONSTRUCTION EQUIPMENT

VOLVO L120H 632540 - HYDRAULIC SYSTEM



Sample No: VCP454249
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP454249	VCP433504	VCP426723	---
Sample Date	29 Mar 2024	09 Nov 2023	31 Jul 2023	---
Machine Hours	15812	13618	12544	---
Oil Hours	0	0	0	---
Oil Changed	Not Changed	Changed	Changed	---
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	---

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OIL CONDITION

Visc @ 40°C	cSt	61.2	59.8	56.1	---
Acid Number (AN)	mg KOH/g	0.36	0.43	0.51	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		▲ 32284	▲ 38777	---	---
Particles >6µm		▲ 11168	▲ 15779	---	---
Particles >14µm		▲ 1429	▲ 3101	---	---
ISO 4406:1999 (c)		22/21/18	22/21/19	---	---
Silicon	ppm	■ 2	■ 5	■ 2	---
Sodium	ppm	■ 2	■ <1	■ 1	---
Potassium	ppm	■ 1	■ 2	■ <1	---

No corrective action is recommended at this time. The 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 a high amount of particulates present in the oil. The oil viscosity is higher than normal. The AN level is acceptable for this fluid.



WEAR METALS

Iron	ppm	■ 3	■ 5	■ 5	---
Copper	ppm	■ <1	■ 1	■ 1	---
Lead	ppm	■ 0	■ <1	■ 0	---
Tin	ppm	■ <1	■ 0	■ 0	---
Aluminum	ppm	■ <1	■ 1	■ <1	---
Chromium	ppm	■ <1	■ 1	■ 1	---
Molybdenum	ppm	■ 3	■ 3	■ 2	---
Nickel	ppm	■ 0	■ 0	■ 0	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	■ 0	■ 0	■ <1	---
Vanadium	ppm	<1	0	<1	---

Diagnosis



ADDITIVES

Calcium	ppm	■ 169	■ 278	■ 288	---
Magnesium	ppm	■ 11	■ 16	■ 8	---
Zinc	ppm	■ 421	■ 459	■ 498	---
Phosphorus	ppm	■ 350	■ 407	■ 438	---
Barium	ppm	■ 0	■ 0	■ 0	---
Boron	ppm	■ 2	■ 5	■ <1	---

Depot: VOLVO0090
Unique No: 10956350
Signed: Don Baldrige
Report Date: 04 Apr 2024

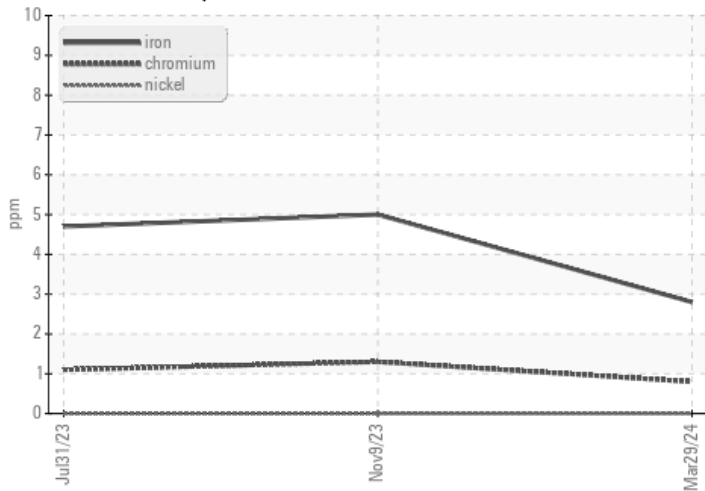


CONSTRUCTION EQUIPMENT

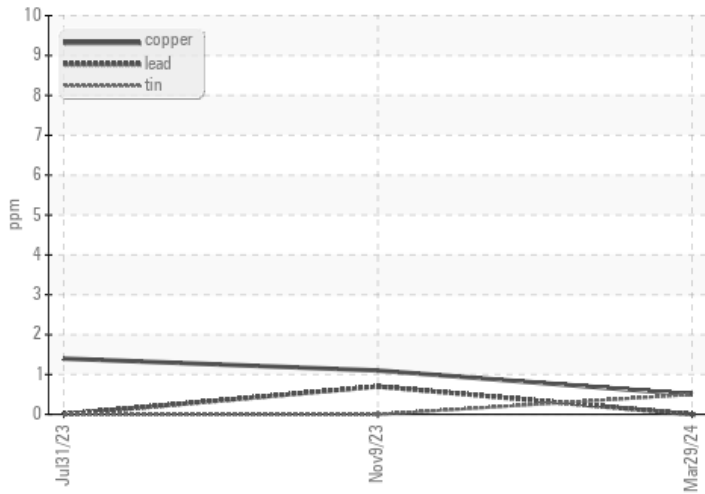


GRAPHS

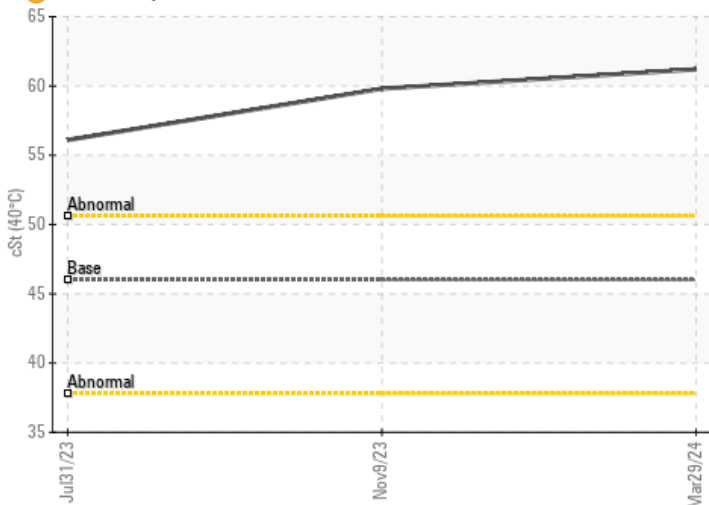
Ferrous Alloys



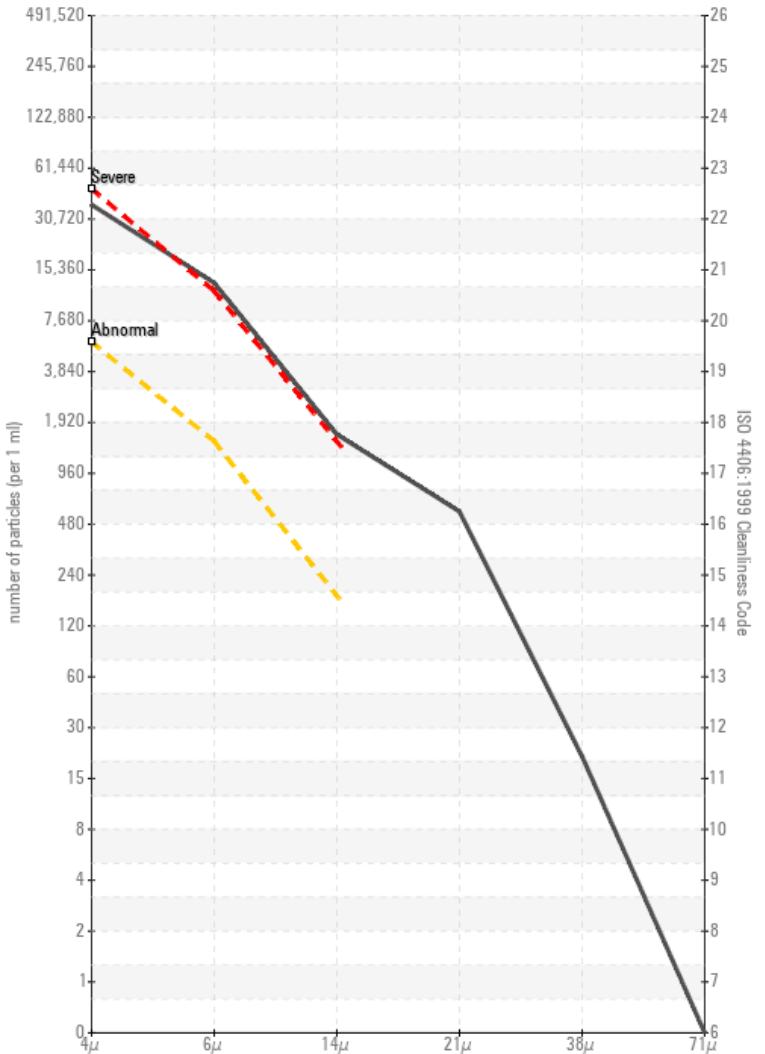
Non-ferrous Metals



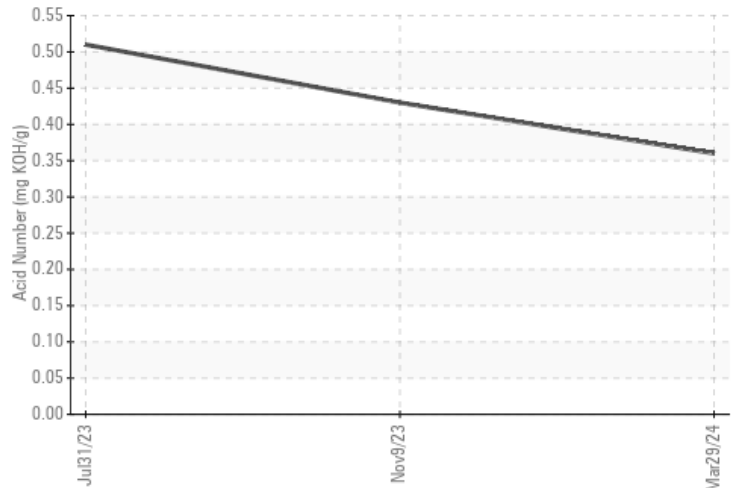
Viscosity @ 40°C



Particle Count



Acid Number





CONSTRUCTION EQUIPMENT

VOLVO L120H 632540 - FRONT LEFT FINAL DRIVE



Sample No: VCP433503
Oil Type: VOLVO WET BRAKE TRANSAXLE OIL
Job No:



SAMPLE INFORMATION

Sample Number	VCP433503	---	---	---
Sample Date	09 Nov 2023	---	---	---
Machine Hours	13618	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	68.9	---	---	---
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CONTAMINATION

Silicon	ppm	25	---	---	---
Sodium	ppm	5	---	---	---
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	498	---	---	---
Copper	ppm	2	---	---	---
Lead	ppm	0	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	<1	---	---	---
Chromium	ppm	4	---	---	---
Molybdenum	ppm	10	---	---	---
Nickel	ppm	2	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	15	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	2598	---	---	---
Magnesium	ppm	17	---	---	---
Zinc	ppm	1064	---	---	---
Phosphorus	ppm	1140	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	119	---	---	---

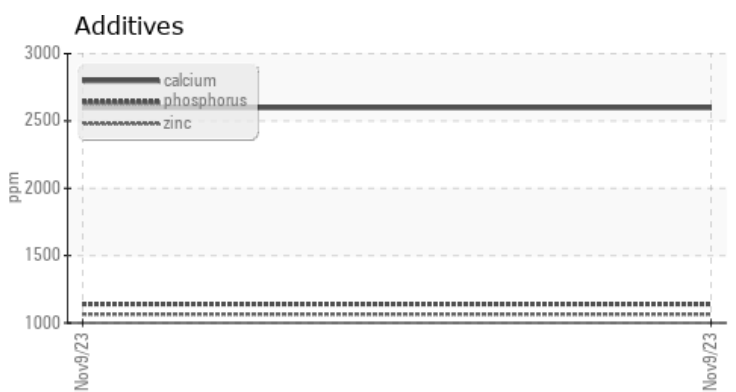
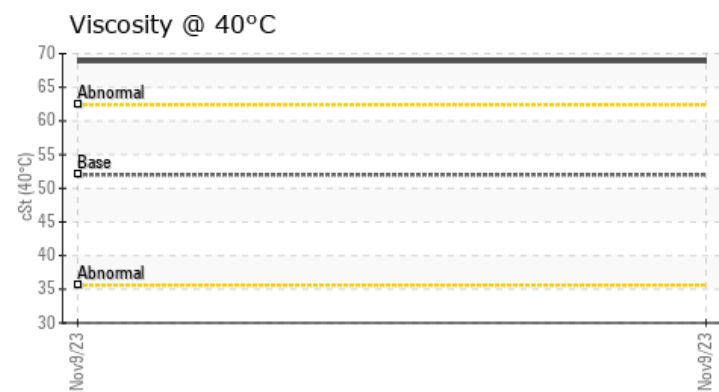
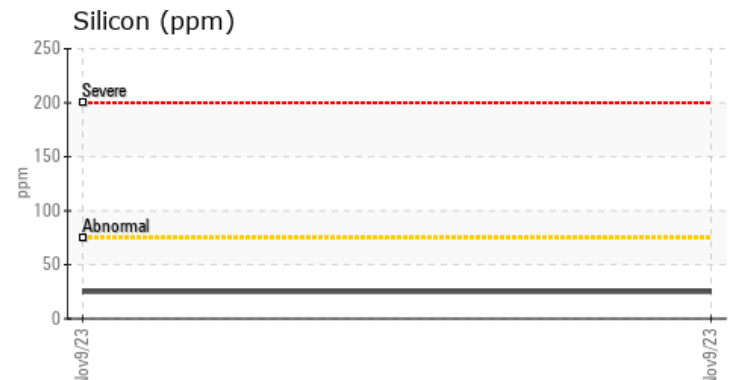
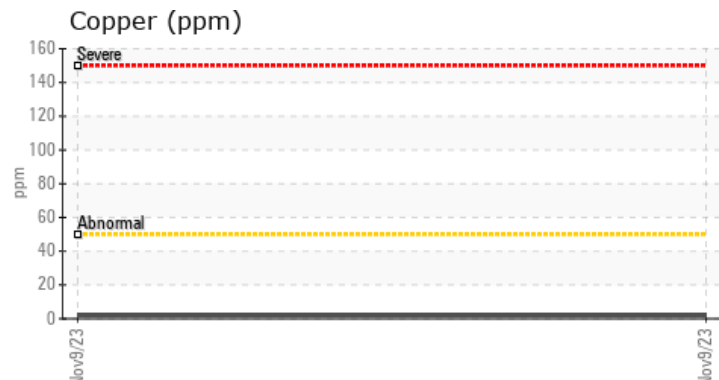
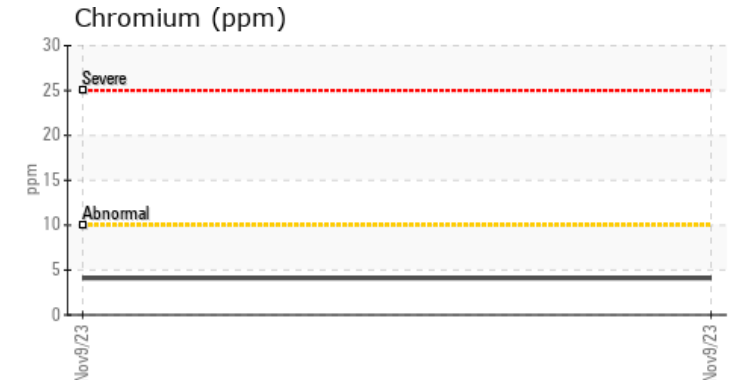
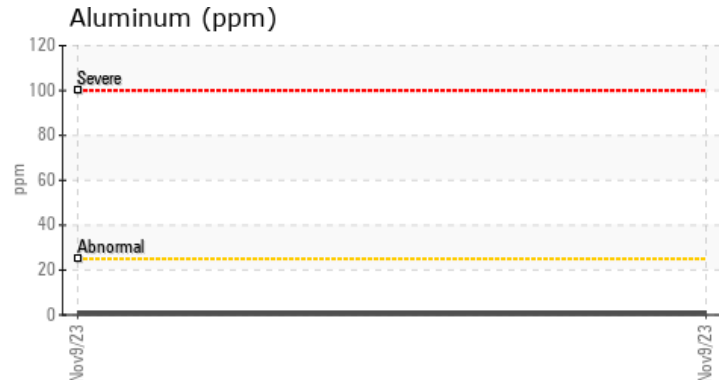
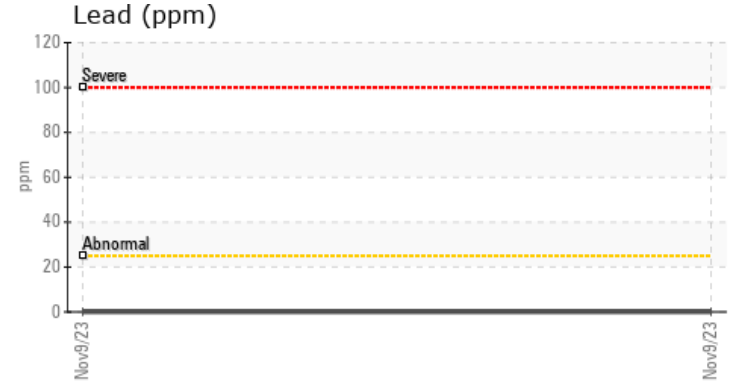
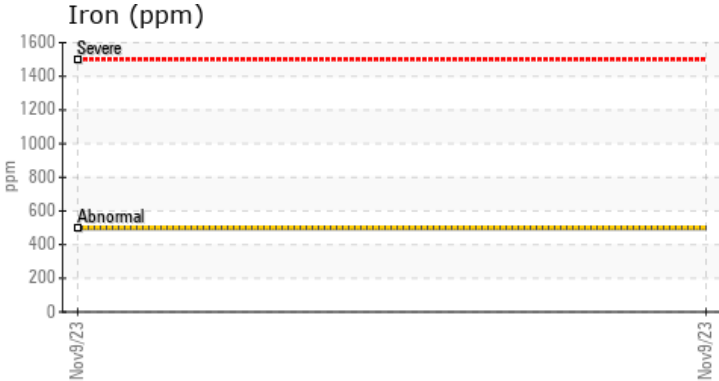
Depot: VOLVO0090
Unique No: 10740981
Signed: Don Baldrige
Report Date: 16 Nov 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS





CONSTRUCTION EQUIPMENT

VOLVO L120H 632540 - FRONT AXLE



Sample No: VCP454248
Oil Type: VOLVO WB 102
Job No:



SAMPLE INFORMATION

Sample Number	VCP454248	VCP433761	VCP418563	VCP312048
Sample Date	29 Mar 2024	09 Nov 2023	31 Jul 2023	21 Jun 2021
Machine Hours	15812	13618	12544	5391
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Changed	Not Changd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	66.2	68.8	288	45.4
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	24	23	25	21
Sodium	ppm	6	5	<1	10
Potassium	ppm	0	0	0	1



WEAR METALS

Iron	ppm	633	620	950	376
Copper	ppm	2	2	6	1
Lead	ppm	0	0	0	<1
Tin	ppm	<1	0	0	<1
Aluminum	ppm	1	<1	2	0
Chromium	ppm	5	5	6	2
Molybdenum	ppm	8	9	13	4
Nickel	ppm	2	2	3	1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	15	15	16	5
Vanadium	ppm	0	0	<1	<1

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.



ADDITIVES

Calcium	ppm	2724	2539	220	4093
Magnesium	ppm	9	16	22	12
Zinc	ppm	1108	1034	124	1562
Phosphorus	ppm	1205	1125	1023	1336
Barium	ppm	0	0	0	0
Boron	ppm	124	119	136	210

Diagnosis

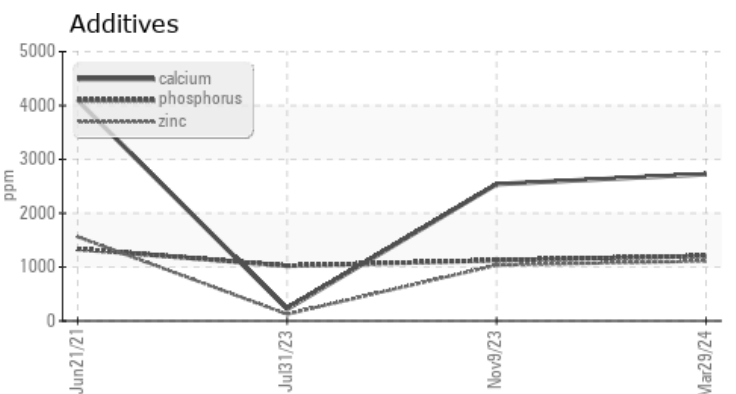
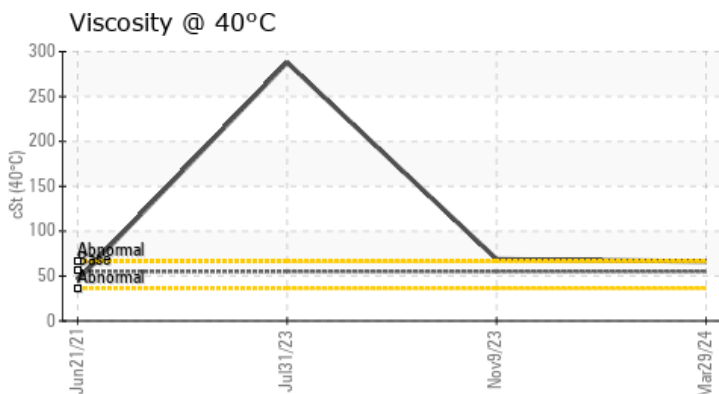
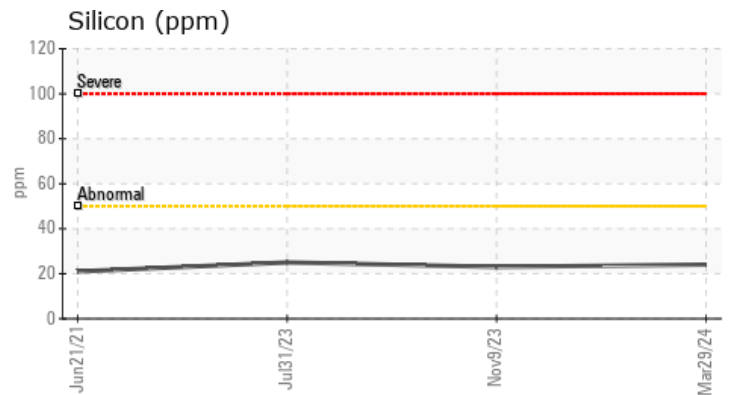
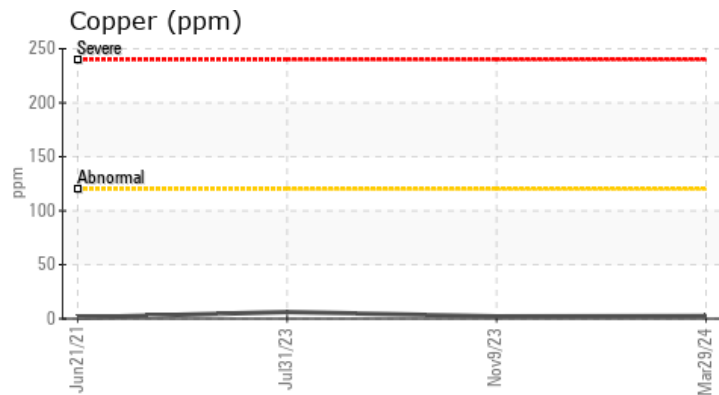
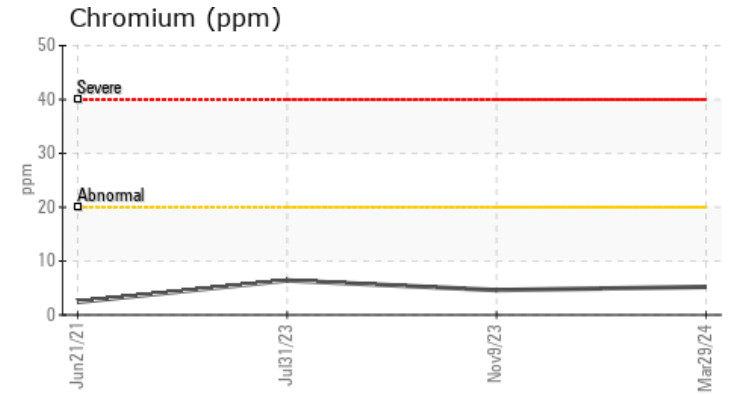
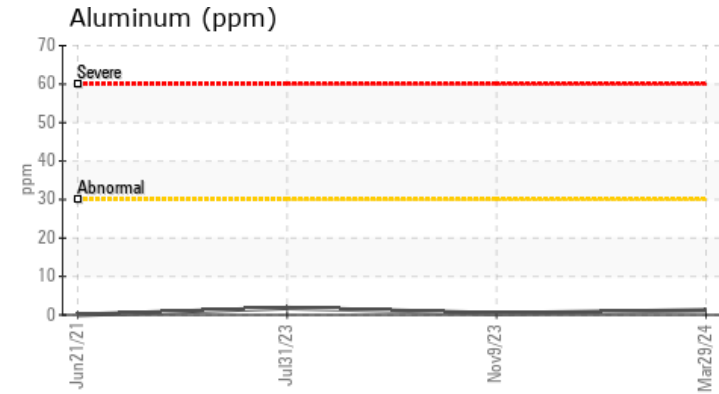
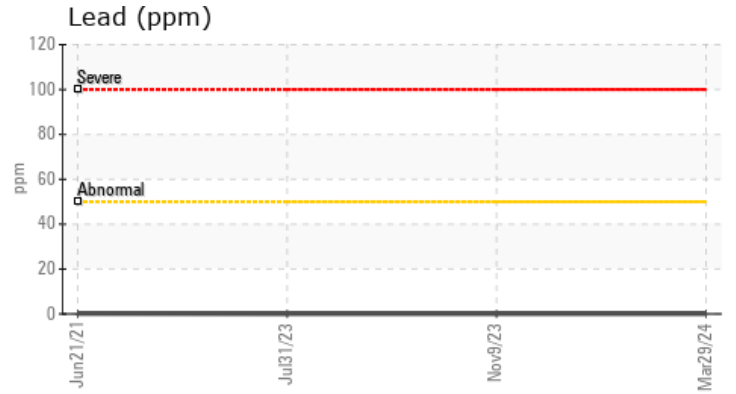
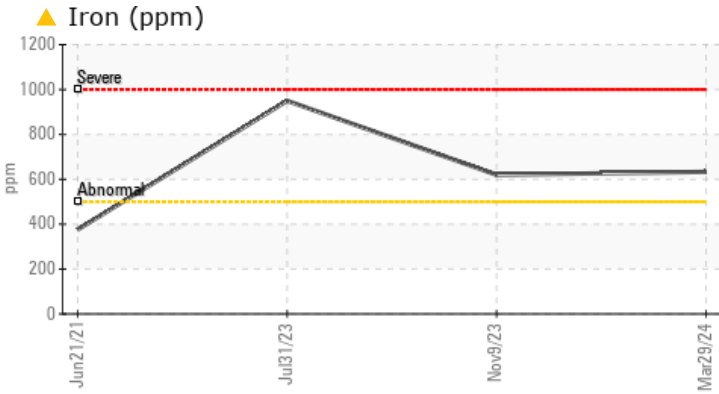
Depot: VOLVO0090
Unique No: 10956107
Signed: Don Baldrige
Report Date: 04 Apr 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS





CONSTRUCTION EQUIPMENT

VOLVO L120H 632540 - FRONT RIGHT FINAL DRIVE



Sample No: VCP433501
Oil Type: VOLVO WET BRAKE TRANSAXLE OIL
Job No:



SAMPLE INFORMATION

Sample Number	VCP433501	---	---	---
Sample Date	09 Nov 2023	---	---	---
Machine Hours	13618	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	█ 68.9	---	---	---
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CONTAMINATION

Silicon	ppm	█ 24	---	---	---
Sodium	ppm	█ 6	---	---	---
Potassium	ppm	█ <1	---	---	---



WEAR METALS

Iron	ppm	▲ 504	---	---	---
Copper	ppm	█ 2	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ <1	---	---	---
Chromium	ppm	█ 4	---	---	---
Molybdenum	ppm	█ 9	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 14	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 2475	---	---	---
Magnesium	ppm	█ 16	---	---	---
Zinc	ppm	█ 1013	---	---	---
Phosphorus	ppm	█ 1104	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 118	---	---	---

Diagnosis

The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. High concentration of visible metal present. Gear wear is indicated. There is a high amount of visible silt present in the sample. The condition of the oil is acceptable for the time in service.

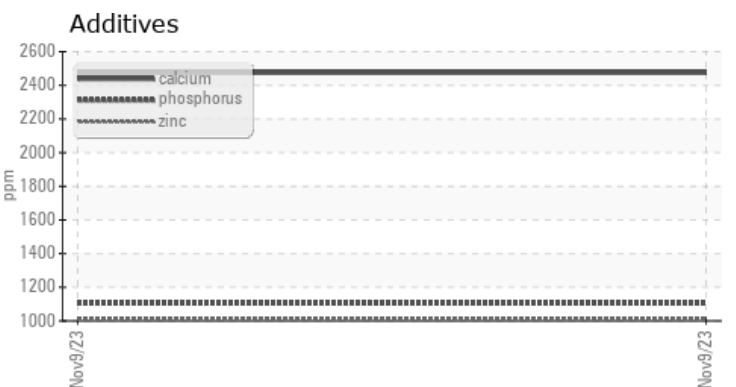
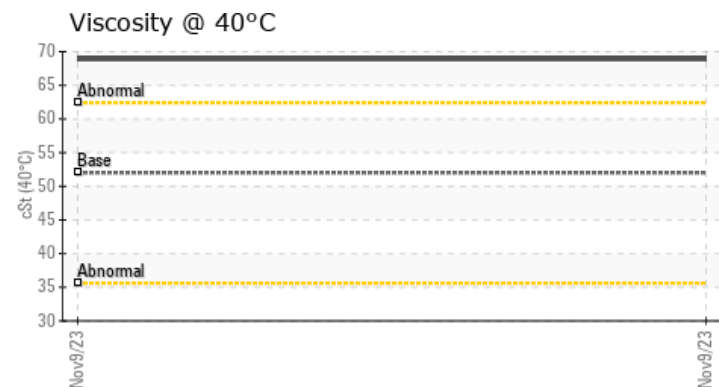
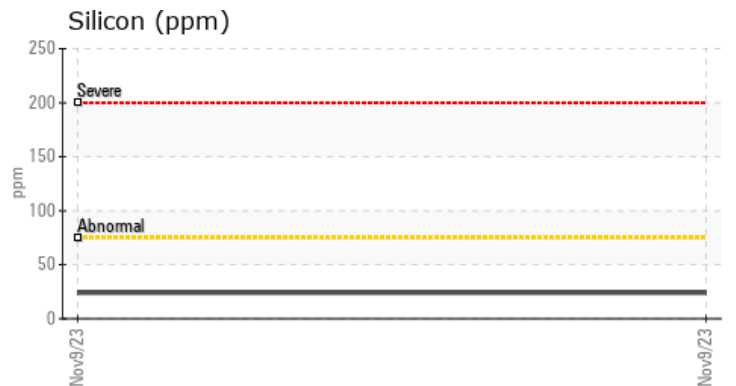
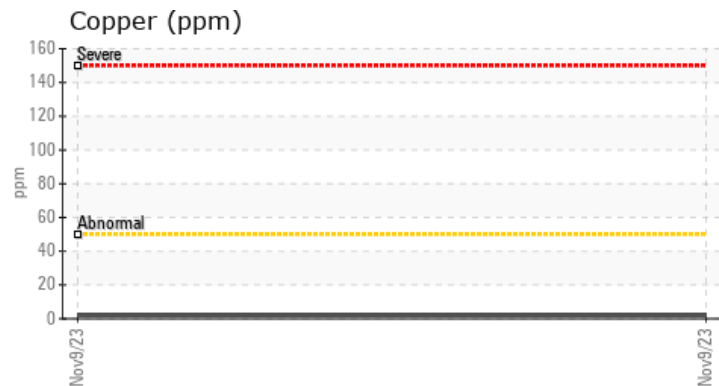
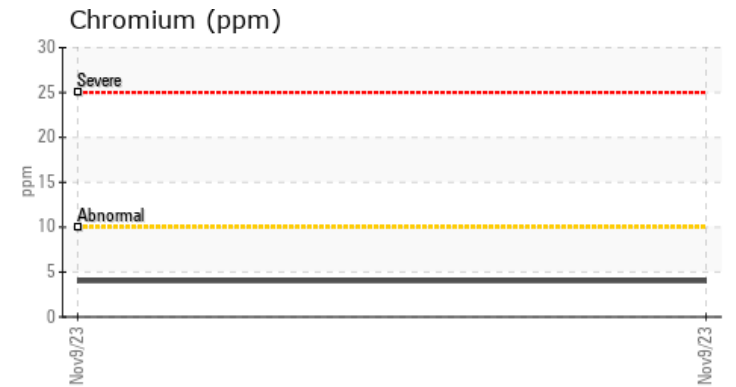
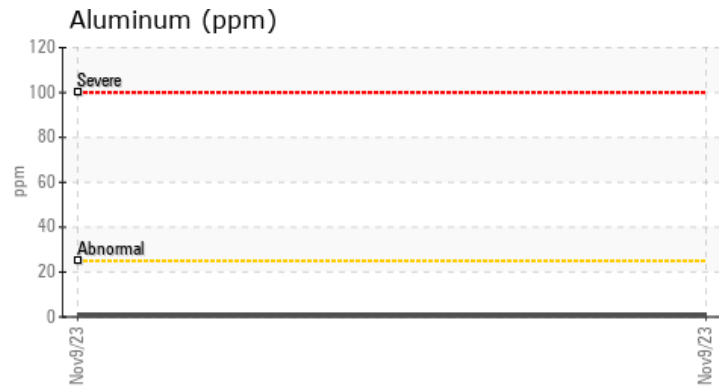
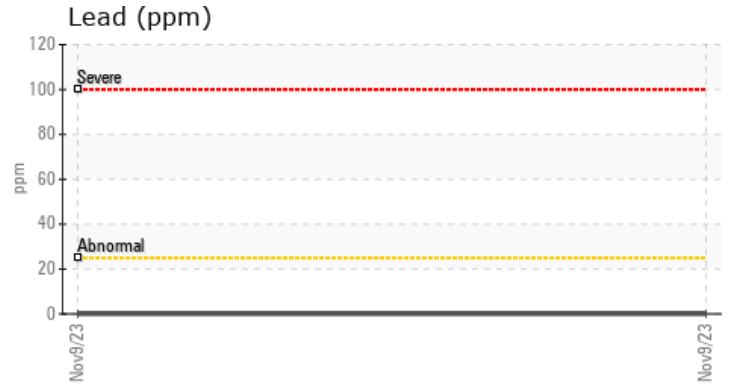
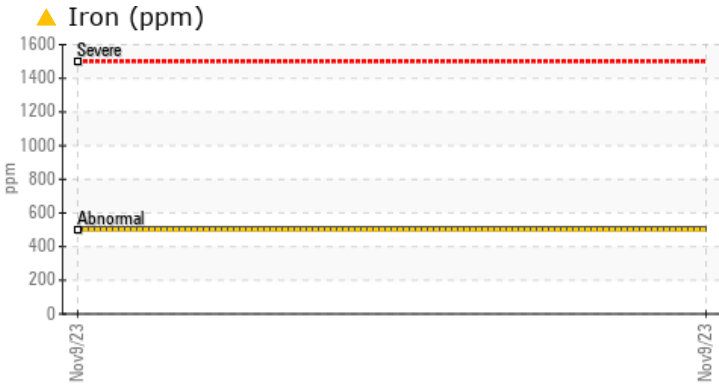
Depot: VOLVO0090
Unique No: 10740990
Signed: Don Baldrige
Report Date: 16 Nov 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS





CONSTRUCTION EQUIPMENT

VOLVO L120H 632540 - REAR LEFT FINAL DRIVE



Sample No: VCP433502
Oil Type: VOLVO WET BRAKE TRANSAXLE OIL
Job No:



SAMPLE INFORMATION

Sample Number	VCP433502	---	---	---
Sample Date	09 Nov 2023	---	---	---
Machine Hours	13618	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

ALTA EQUIPMENT COMPANY
 5151 DR MARTIN LUTHER KING BLVD
 FORT MYERS, FL
 US 33905
 Contact: TODD LARK
 tlark@altaequipfl.com
 T:
 F: (239)481-3302



OIL CONDITION

Visc @ 40°C	cSt	█ 44.0	---	---	---
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CONTAMINATION

Silicon	ppm	█ 24	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 0	---	---	---



WEAR METALS

Iron	ppm	█ 241	---	---	---
Copper	ppm	█ < 1	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ 3	---	---	---
Molybdenum	ppm	█ 17	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 13	---	---	---
Vanadium	ppm	█ 0	---	---	---



ADDITIVES

Calcium	ppm	█ 3857	---	---	---
Magnesium	ppm	█ 31	---	---	---
Zinc	ppm	█ 1539	---	---	---
Phosphorus	ppm	█ 1246	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 131	---	---	---

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. There is a high amount of visible silt present in the sample. The condition of the oil is acceptable for the time in service.

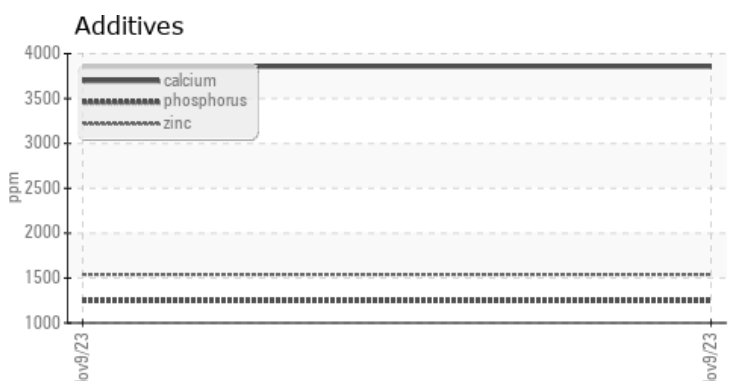
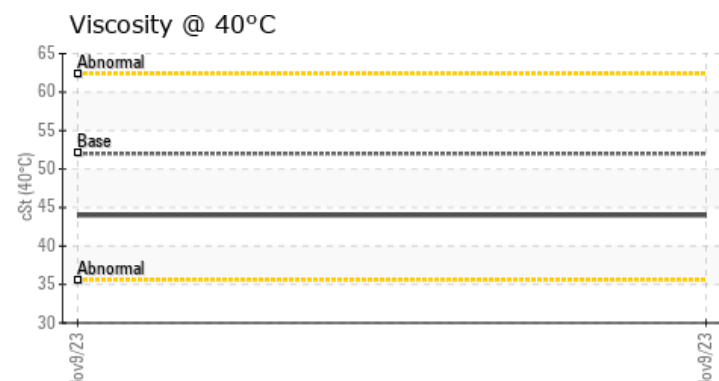
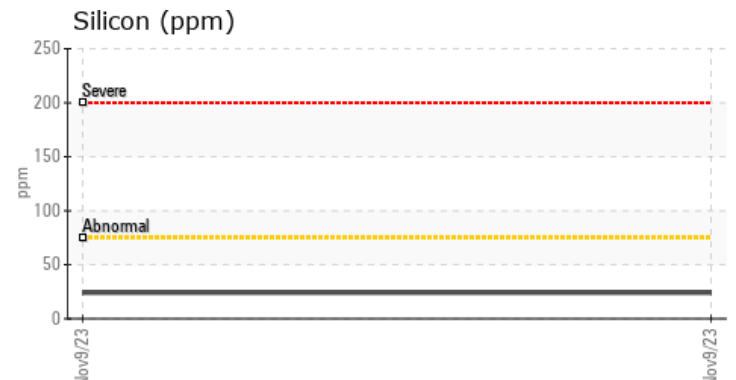
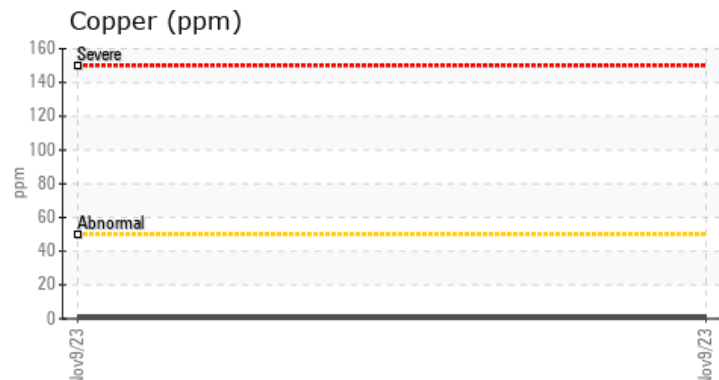
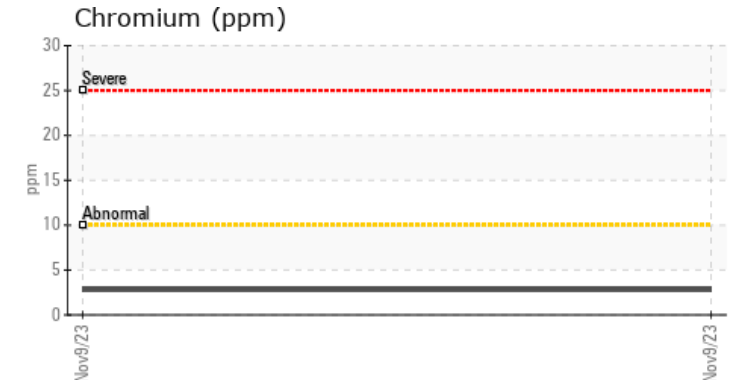
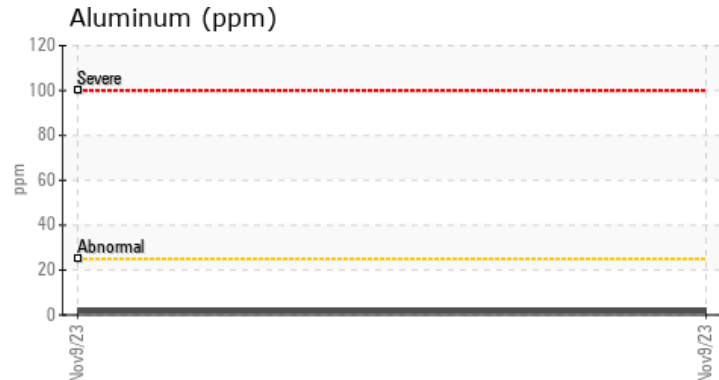
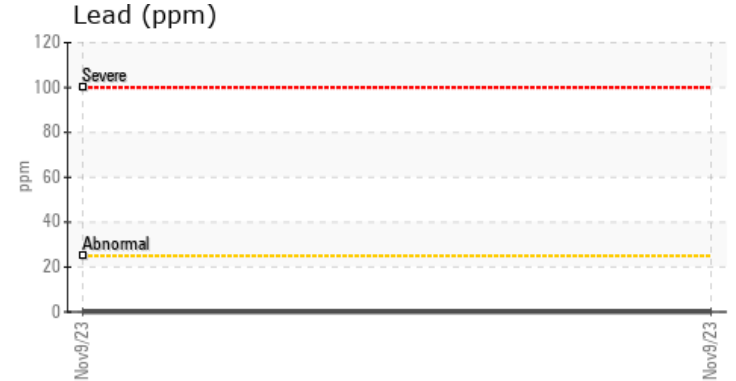
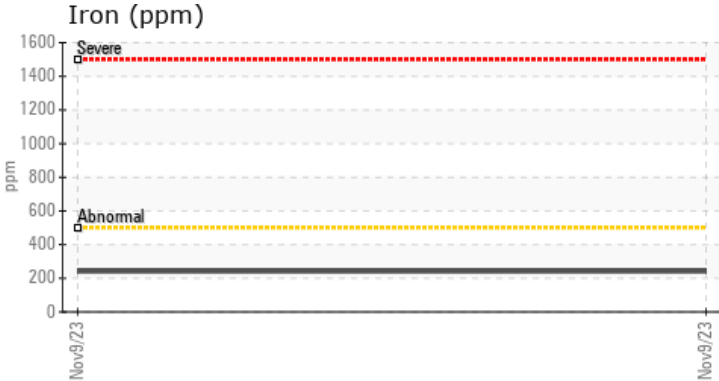
Depot: VOLVO0090
Unique No: 10740980
Signed: Don Baldrige
Report Date: 16 Nov 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS





CONSTRUCTION EQUIPMENT

VOLVO L120H 632540 - REAR AXLE



Sample No: VCP454250
Oil Type: VOLVO WB 102
Job No:



SAMPLE INFORMATION

Sample Number	VCP454250	VCP433763	VCP426728	---
Sample Date	29 Mar 2024	09 Nov 2023	31 Jul 2023	---
Machine Hours	15812	13618	12544	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Not Changd	Changed	---
Sample Status	NORMAL	NORMAL	ABNORMAL	---

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OIL CONDITION

Visc @ 40°C	cSt	43.9	43.9	43.8	---
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CONTAMINATION

Water	%	NEG	NEG	NEG	---
Silicon	ppm	21	19	17	---
Sodium	ppm	3	2	1	---
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	214	164	49	---
Copper	ppm	1	<1	0	---
Lead	ppm	0	0	0	---
Tin	ppm	<1	0	0	---
Aluminum	ppm	2	1	1	---
Chromium	ppm	2	2	1	---
Molybdenum	ppm	13	12	8	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	<1	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	12	9	8	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	3977	3680	4095	---
Magnesium	ppm	20	25	32	---
Zinc	ppm	1579	1456	1743	---
Phosphorus	ppm	1302	1221	1345	---
Barium	ppm	0	0	0	---
Boron	ppm	136	124	143	---

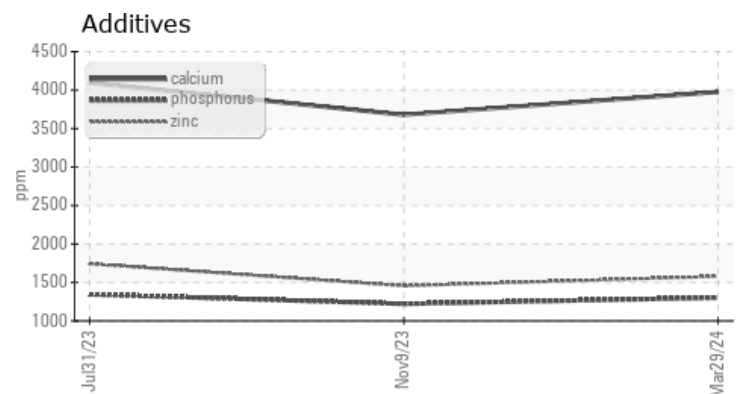
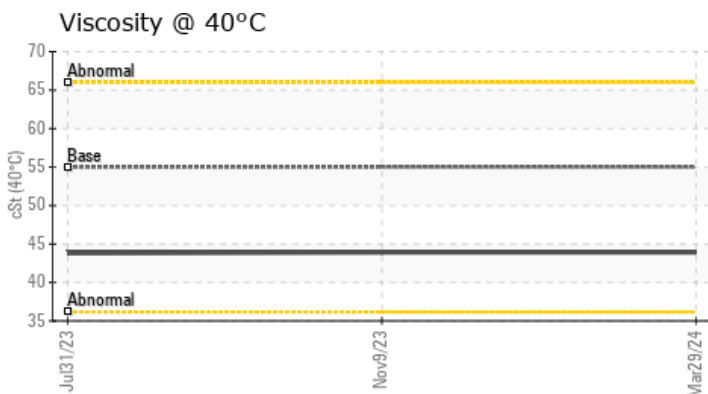
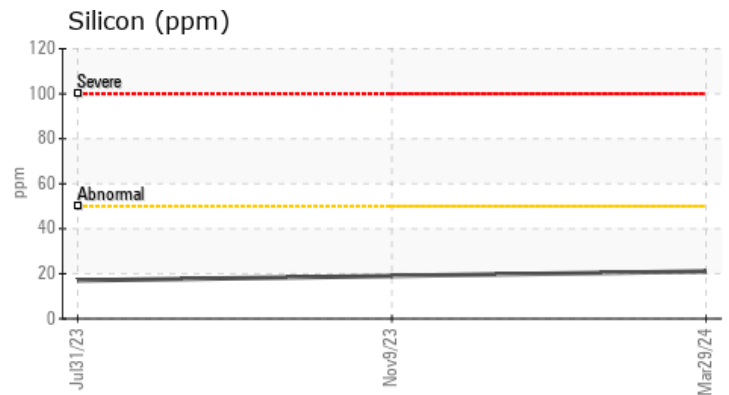
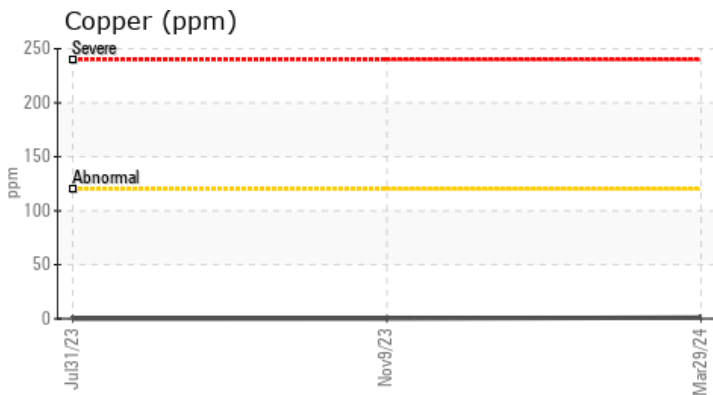
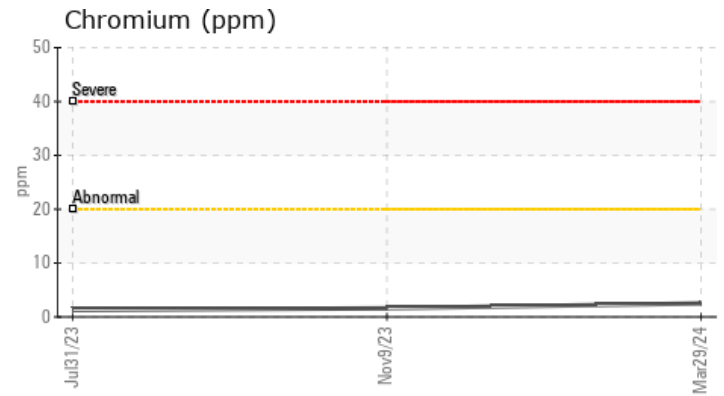
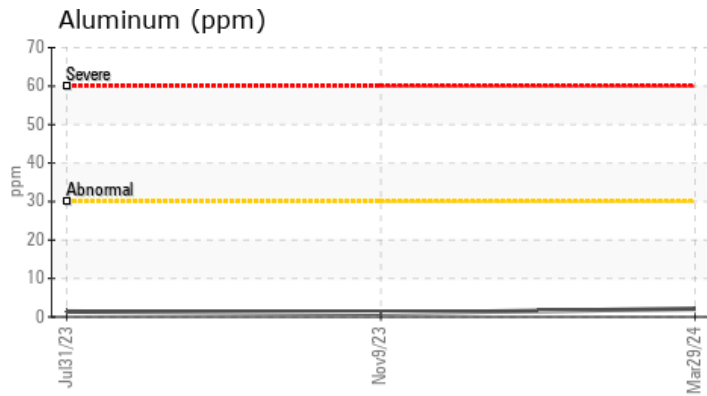
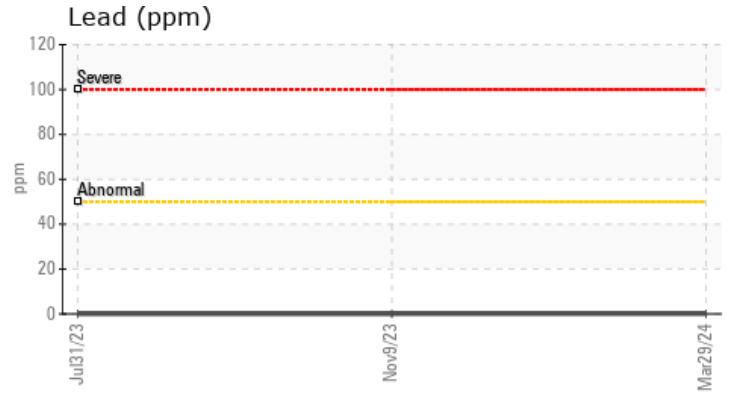
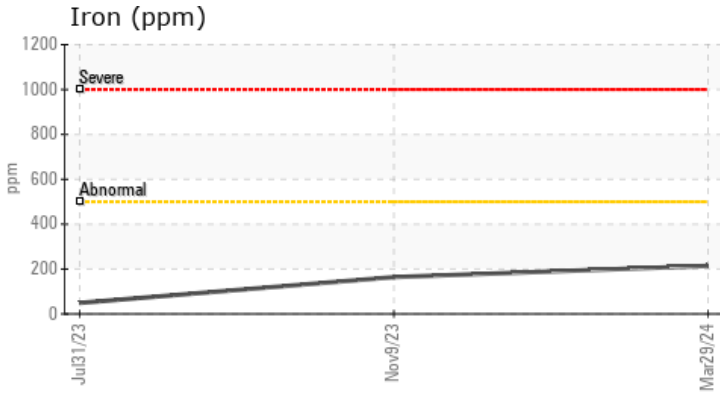
Depot: VOLVO0090
Unique No: 10956106
Signed: Wes Davis
Report Date: 03 Apr 2024



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

VOLVO L120H 632540 - REAR RIGHT FINAL DRIVE



Sample No: VCP433762
Oil Type: VOLVO WET BRAKE TRANSAXLE OIL
Job No:



SAMPLE INFORMATION

Sample Number	VCP433762	---	---	---
Sample Date	09 Nov 2023	---	---	---
Machine Hours	13618	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

ALTA EQUIPMENT COMPANY
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 FORT MYERS, FL
 US 33905
 Contact: TODD LARK
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 T:
 F: (239)481-3302

OIL CONDITION

Visc @ 40°C	cSt	█ 44.1	---	---	---
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CONTAMINATION

Silicon	ppm	█ 23	---	---	---
Sodium	ppm	█ 2	---	---	---
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	█ 270	---	---	---
Copper	ppm	█ <1	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ 3	---	---	---
Molybdenum	ppm	█ 16	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 13	---	---	---
Vanadium	ppm	█ 0	---	---	---

ADDITIVES

Calcium	ppm	█ 3847	---	---	---
Magnesium	ppm	█ 29	---	---	---
Zinc	ppm	█ 1539	---	---	---
Phosphorus	ppm	█ 1244	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 130	---	---	---

Depot: VOLVO0090
Unique No: 10740982
Signed: Wes Davis
Report Date: 15 Nov 2023

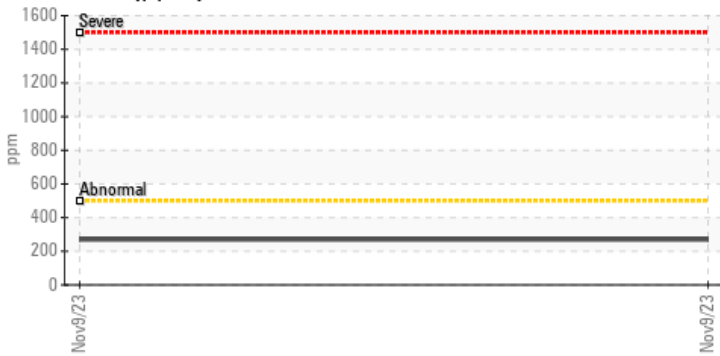


CONSTRUCTION EQUIPMENT



GRAPHS

Iron (ppm)



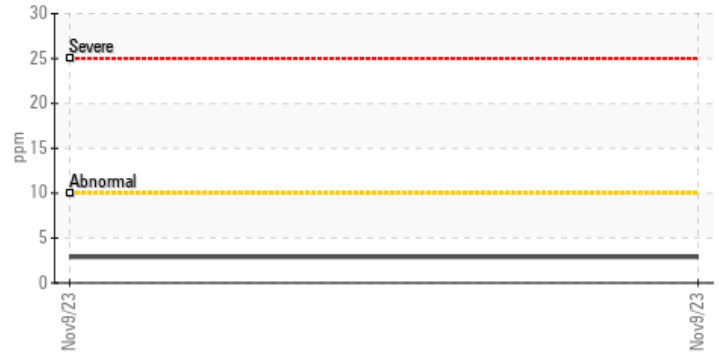
Lead (ppm)



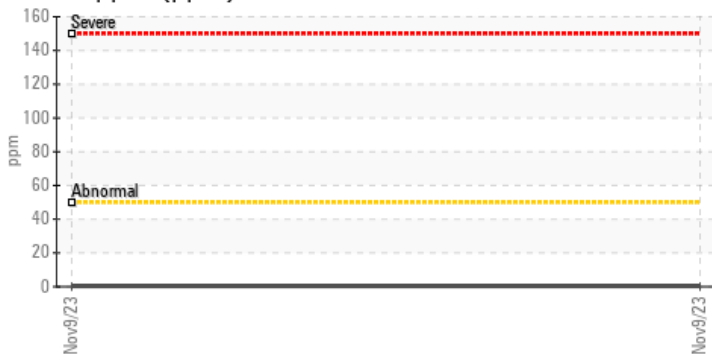
Aluminum (ppm)



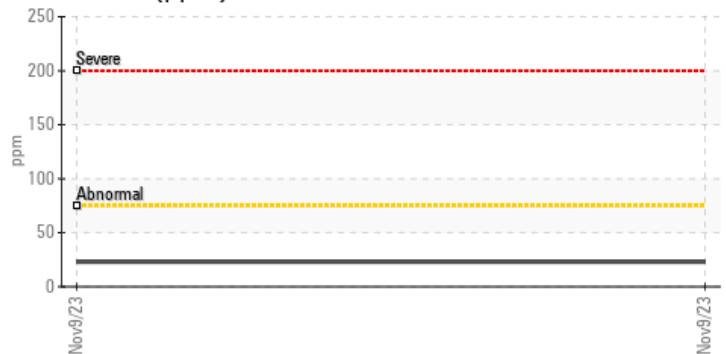
Chromium (ppm)



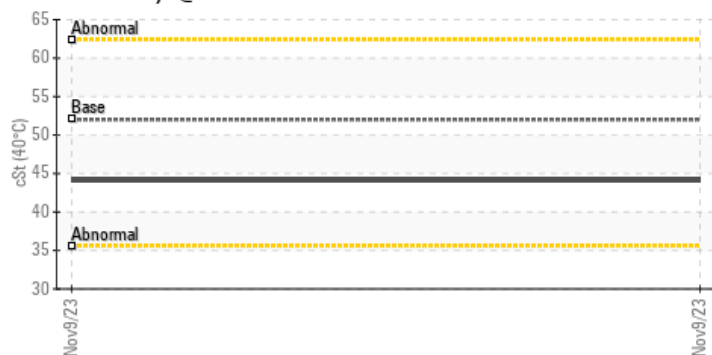
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

