



CONSTRUCTION EQUIPMENT

CEMEX VOLVO L90H 624746 - DIESEL ENGINE



Sample No: VCP412398
Oil Type: CHEVRON DELO 400 SDE SAE 15W40
Job No: CEMEX



SAMPLE INFORMATION

Sample Number	VCP412398	VCP416260	---	---
Sample Date	21 Jun 2024	29 Aug 2023	---	---
Machine Hours	11713	10617	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

ROMCO INC-LAFERIA

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 T: (956)565-0100
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OIL CONDITION

Visc @ 100°C	cSt	13.8	12.5	---	---
Base Number (BN)	mg KOH/g	7.9	8.0	---	---
Oxidation (PA)	%	68	57	---	---

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	---	---
Soot %	%	0.5	0.4	---	---
Nitration (PA)	%	73	62	---	---
Sulfation (PA)	%	62	57	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	5	6	---	---
Sodium	ppm	<1	<1	---	---
Potassium	ppm	2	2	---	---



WEAR METALS

Iron	ppm	5	9	---	---
Copper	ppm	<1	<1	---	---
Lead	ppm	0	0	---	---
Tin	ppm	0	<1	---	---
Aluminum	ppm	10	13	---	---
Chromium	ppm	<1	1	---	---
Molybdenum	ppm	123	118	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	0	<1	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	1496	1628	---	---
Magnesium	ppm	633	620	---	---
Zinc	ppm	1013	891	---	---
Phosphorus	ppm	789	717	---	---
Barium	ppm	0	0	---	---
Boron	ppm	232	273	---	---

Depot: VOLVO8737
Unique No: 11098961
Signed: Wes Davis
Report Date: 27 Jun 2024



CONSTRUCTION EQUIPMENT

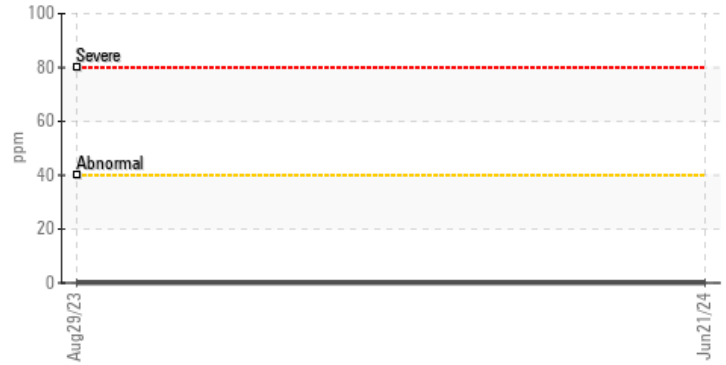


GRAPHS

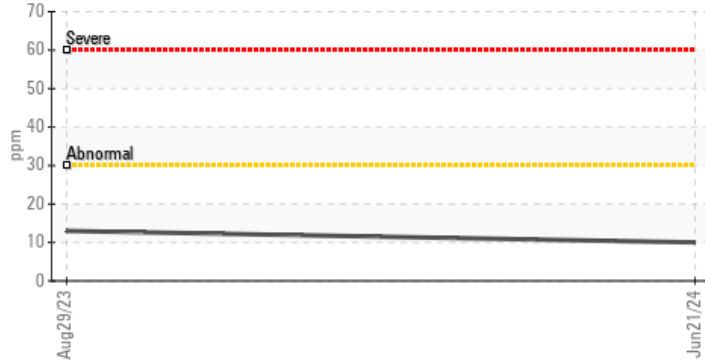
Iron (ppm)



Lead (ppm)



Aluminum (ppm)



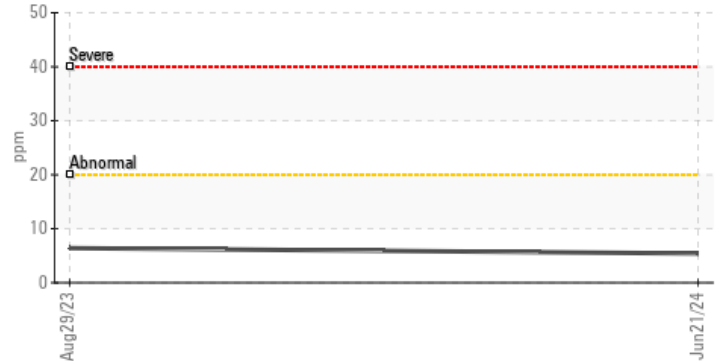
Chromium (ppm)



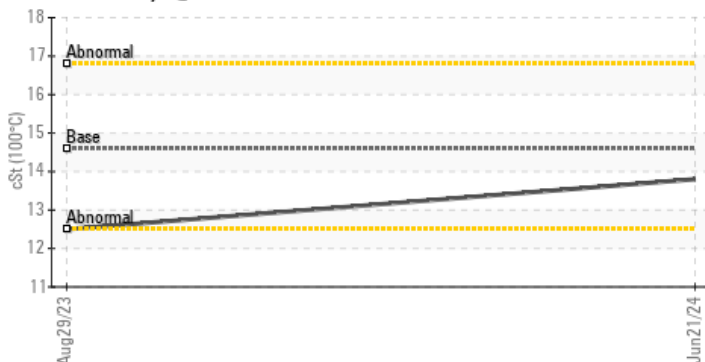
Copper (ppm)



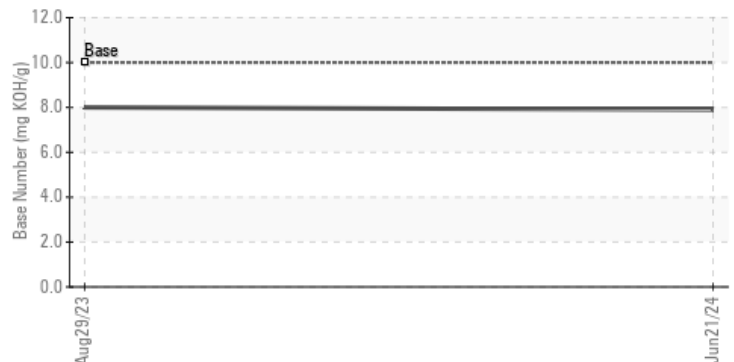
Silicon (ppm)



Viscosity @ 100°C



Base Number





CONSTRUCTION EQUIPMENT

CEMEX VOLVO L90H 624746 - TRANSMISSION (AUTO)



Sample No: VCP416261

Oil Type: ATF

Job No: CEMEX



SAMPLE INFORMATION

Sample Number	VCP416261	---	---	---
Sample Date	29 Aug 2023	---	---	---
Machine Hours	10617	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

ROMCO INC-LAFERIA

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OIL CONDITION

Visc @ 40°C	cSt	■ 32.0	---	---	---
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CONTAMINATION

Silicon	ppm	■ 14	---	---	---
Sodium	ppm	■ 15	---	---	---
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 fluid. The condition of the fluid is acceptable for the time in service.



WEAR METALS

Iron	ppm	■ 61	---	---	---
Copper	ppm	■ 204	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 14	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ <1	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 557	---	---	---
Magnesium	ppm	■ 4	---	---	---
Zinc	ppm	■ 185	---	---	---
Phosphorus	ppm	■ 539	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 172	---	---	---

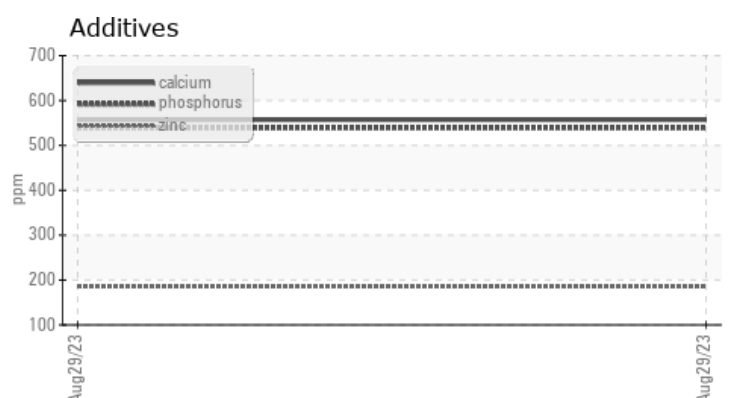
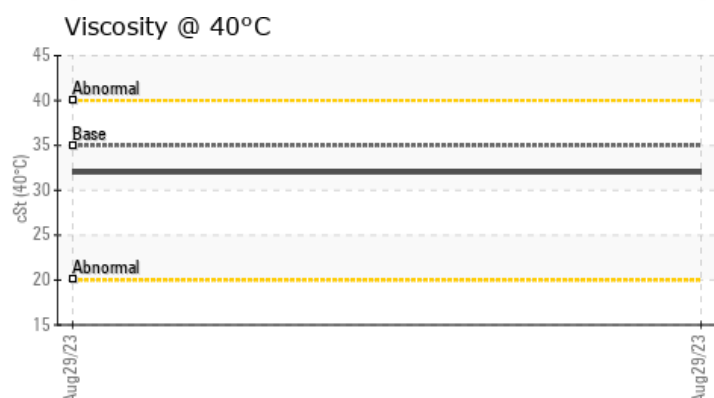
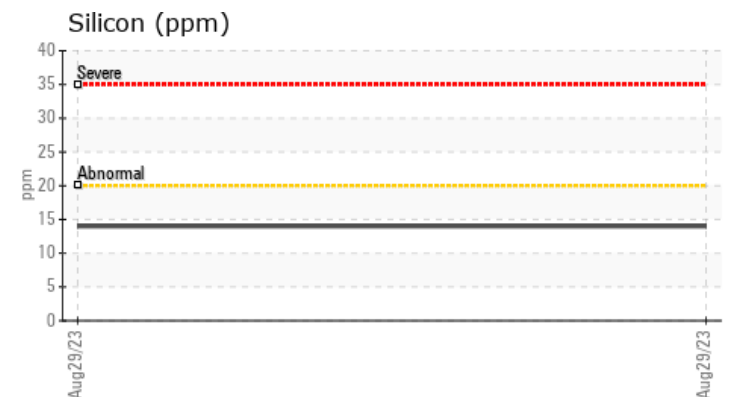
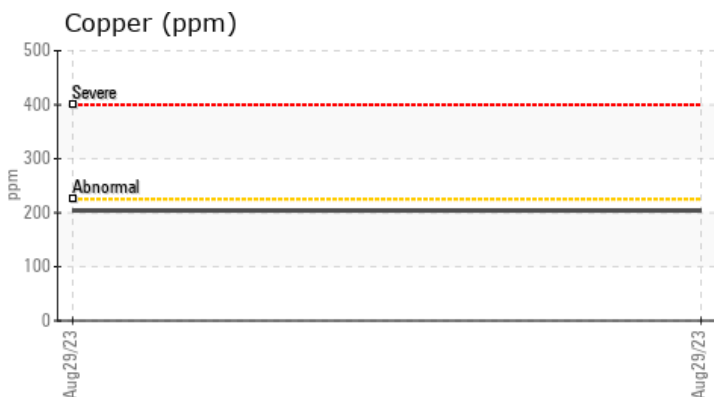
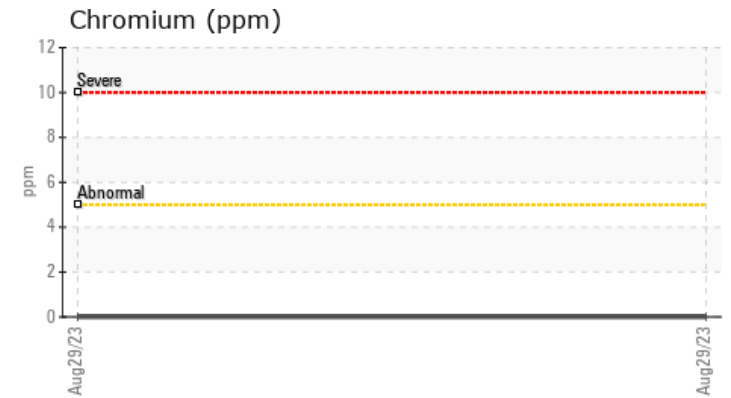
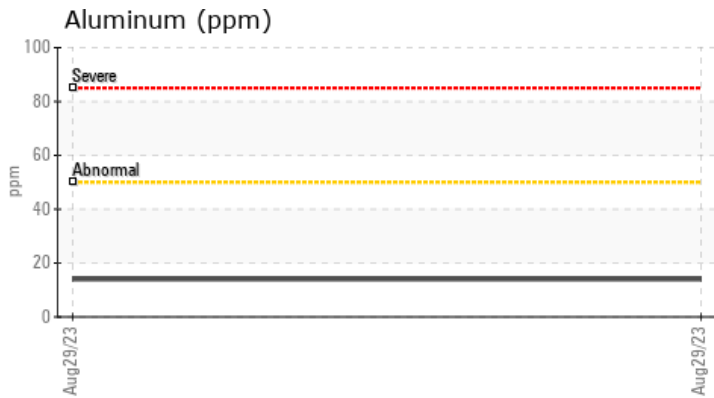
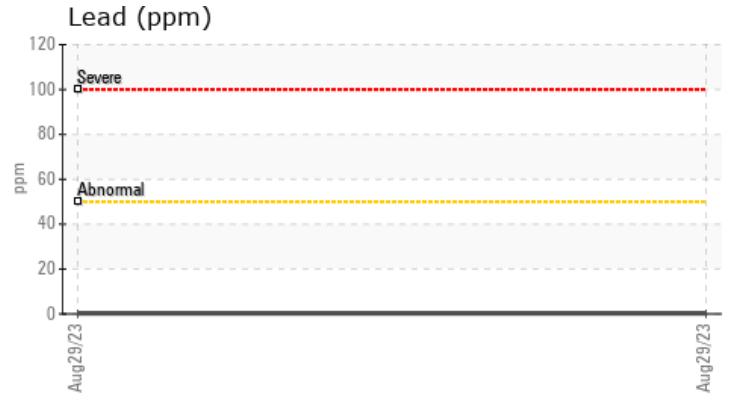
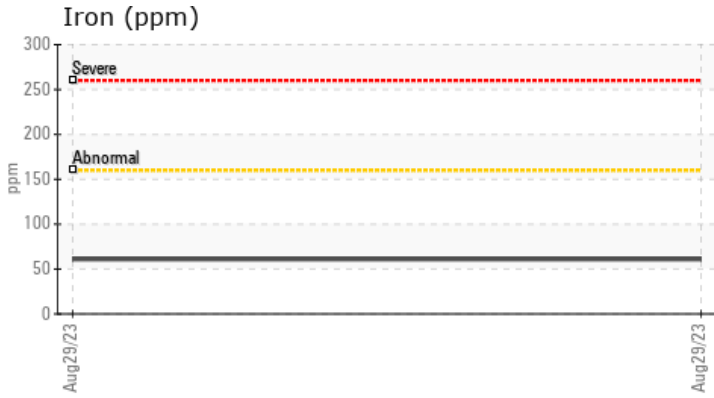
Depot: VOLV08737
Unique No: 10659127
Signed: Don Baldrige
Report Date: 23 Sep 2023



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

CEMEX VOLVO L90H 624746 - HYDRAULIC SYSTEM



Sample No: VCP416259
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: CEMEX



SAMPLE INFORMATION

Sample Number	VCP416259	---	---	---
Sample Date	29 Aug 2023	---	---	---
Machine Hours	10617	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ATTENTION	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	█ 44.6	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.83	---	---	---



CONTAMINATION

Particles >4µm		▲ 9469	---	---	---
Particles >6µm		█ 884	---	---	---
Particles >14µm		█ 17	---	---	---
ISO 4406:1999 (c)		20/17/11	---	---	---
Silicon	ppm	█ 6	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 2	---	---	---

Diagnosis

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 moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	█ 10	---	---	---
Copper	ppm	█ 2	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ 1	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	< 1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 1087	---	---	---
Magnesium	ppm	█ 13	---	---	---
Zinc	ppm	█ 688	---	---	---
Phosphorus	ppm	█ 525	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 31	---	---	---

Depot: VOLVO8737
Unique No: 10658783
Signed: Don Baldrige
Report Date: 22 Sep 2023

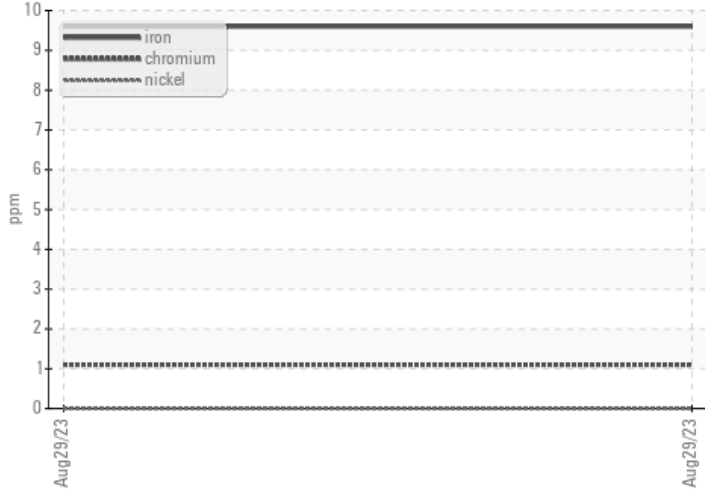


CONSTRUCTION EQUIPMENT

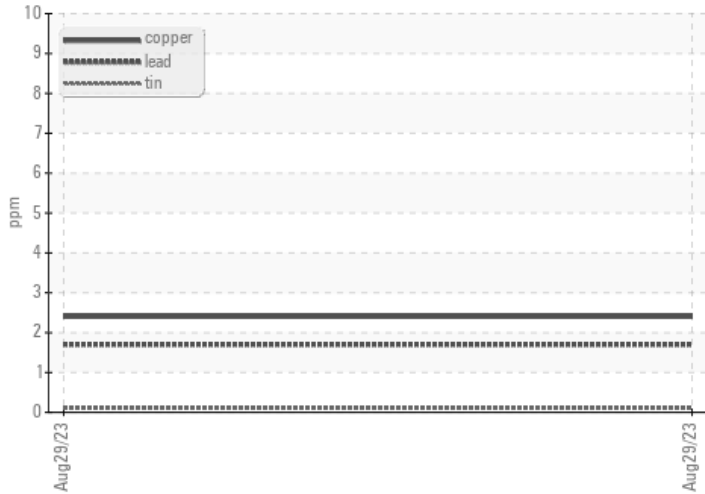


GRAPHS

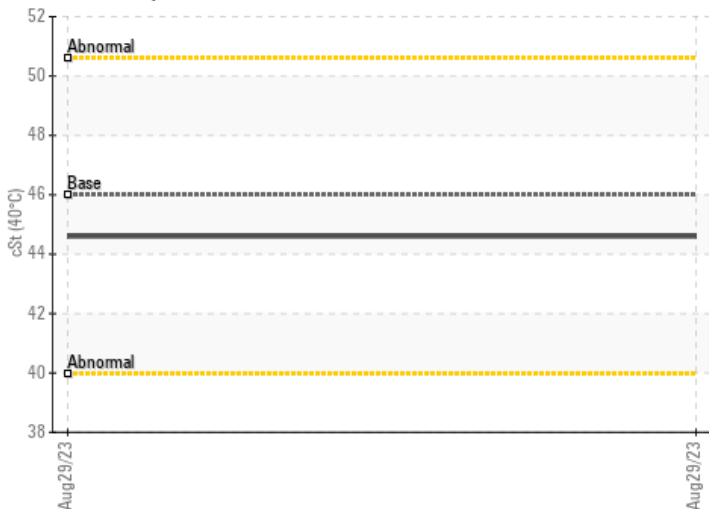
Ferrous Alloys



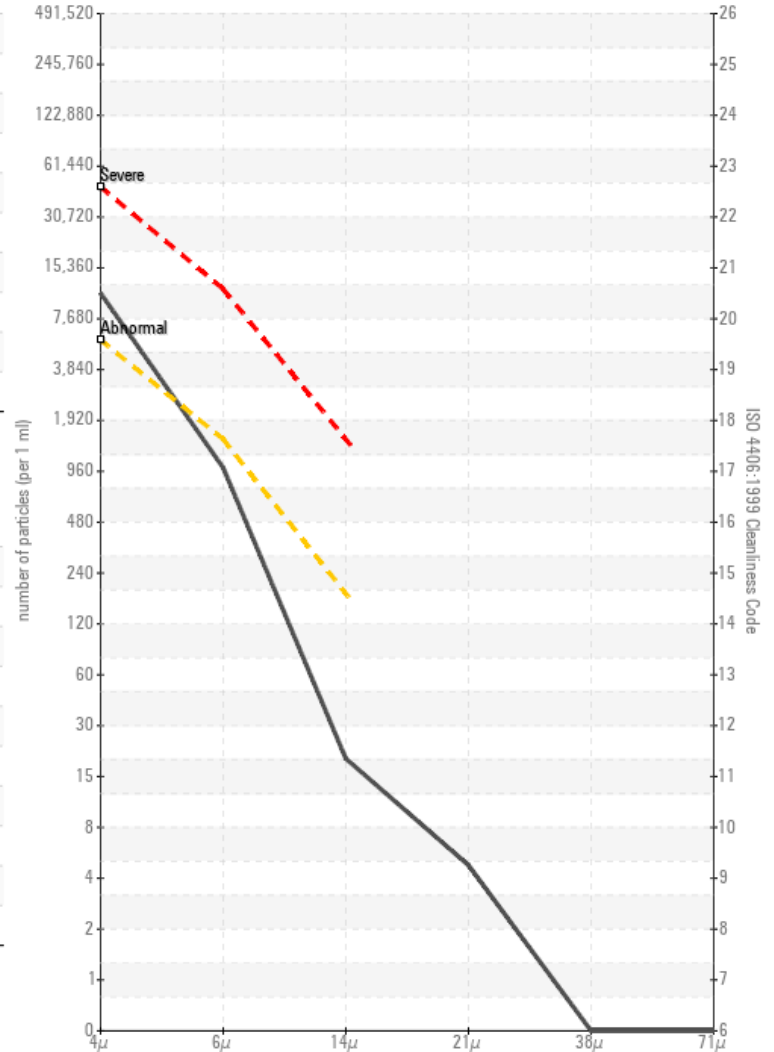
Non-ferrous Metals



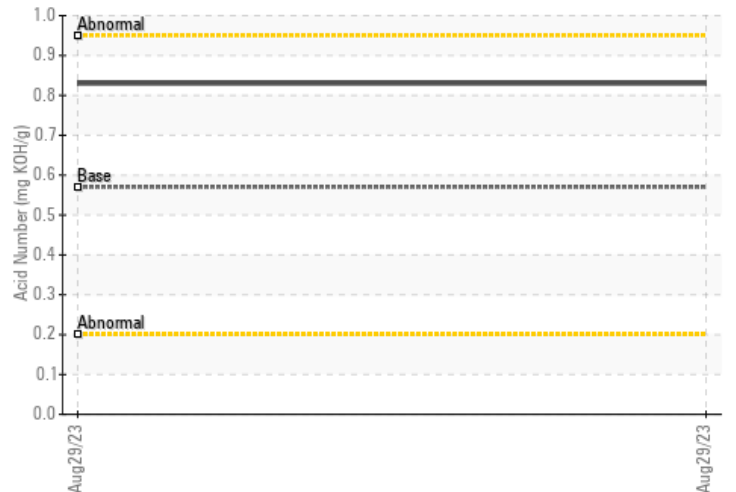
Viscosity @ 40°C



Particle Count



Acid Number





CONSTRUCTION EQUIPMENT

CEMEX VOLVO L90H 624746 - FRONT AXLE



Sample No: VCP416263
Oil Type: CHEVRON 1000 THF
Job No: CEMEX



SAMPLE INFORMATION

Sample Number	VCP416263	---	---	---
Sample Date	29 Aug 2023	---	---	---
Machine Hours	10617	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	█ 52.04	---	---	---
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CONTAMINATION

Silicon	ppm	█ 23	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 2	---	---	---



WEAR METALS

Iron	ppm	█ 158	---	---	---
Copper	ppm	█ <1	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 6	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 3	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 2898	---	---	---
Magnesium	ppm	█ 29	---	---	---
Zinc	ppm	█ 1302	---	---	---
Phosphorus	ppm	█ 1065	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 51	---	---	---

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.

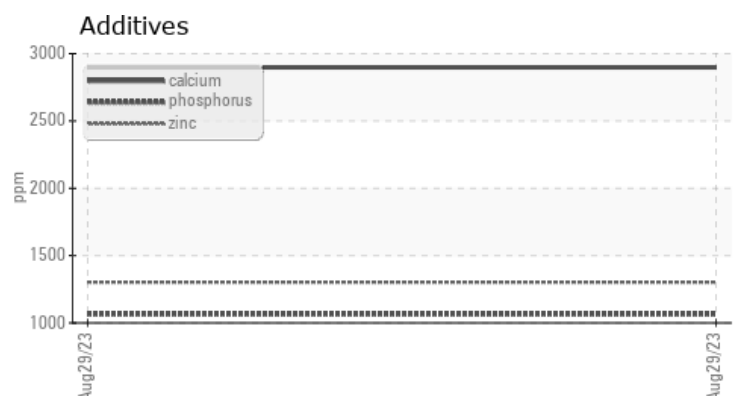
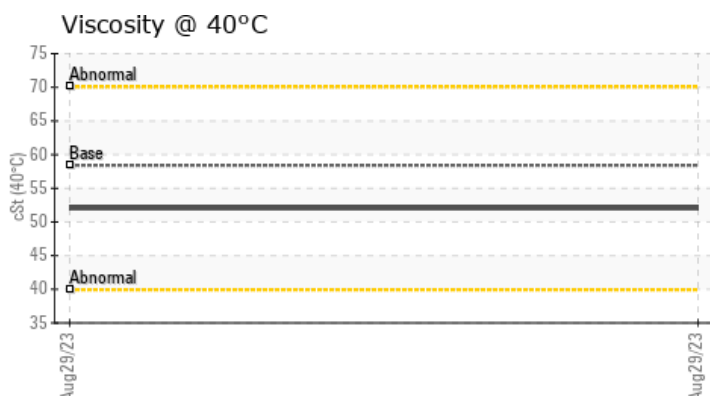
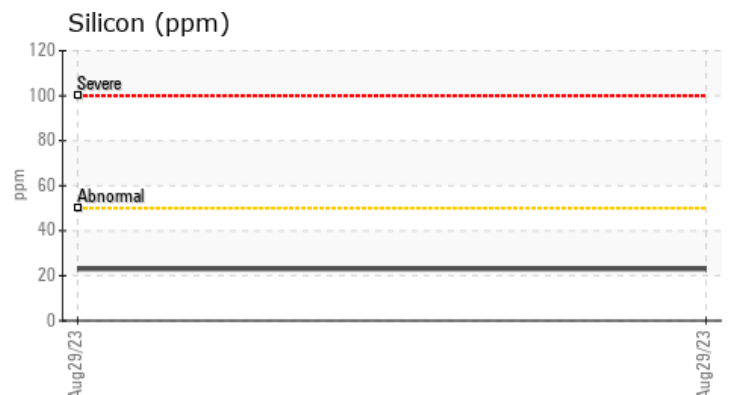
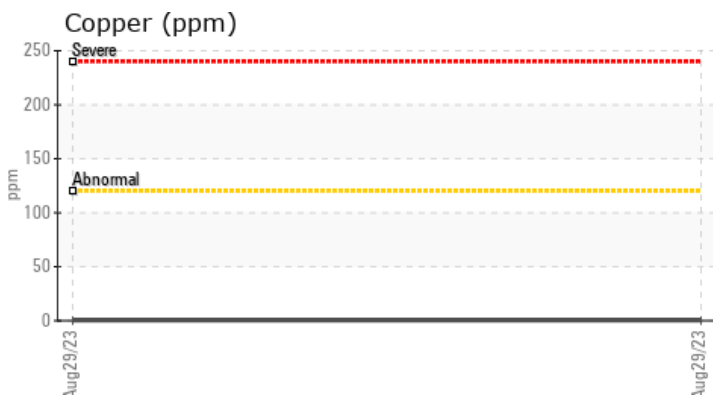
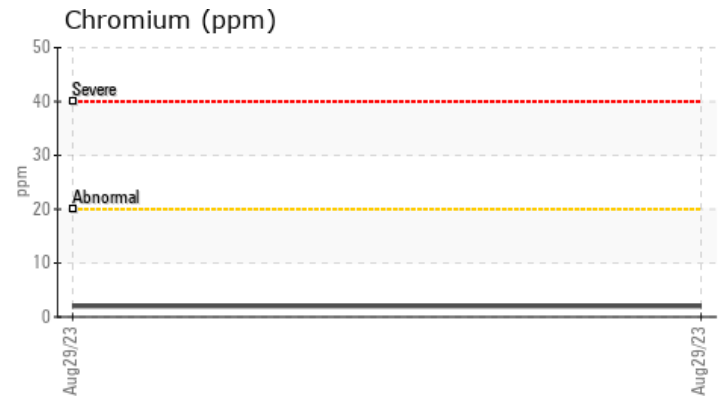
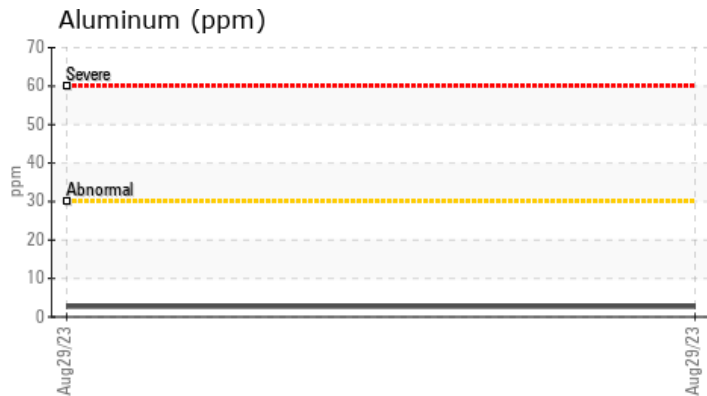
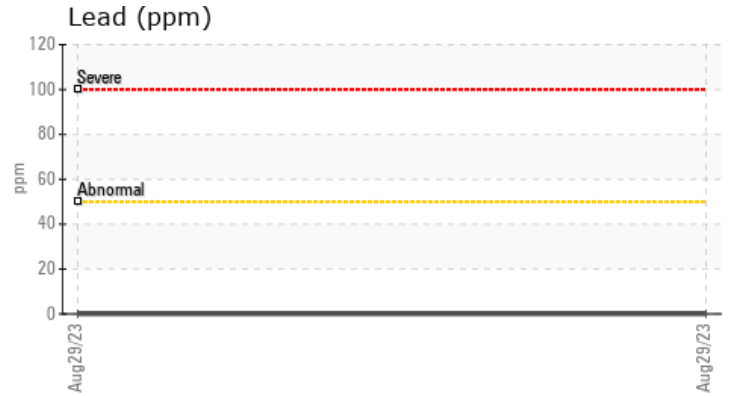
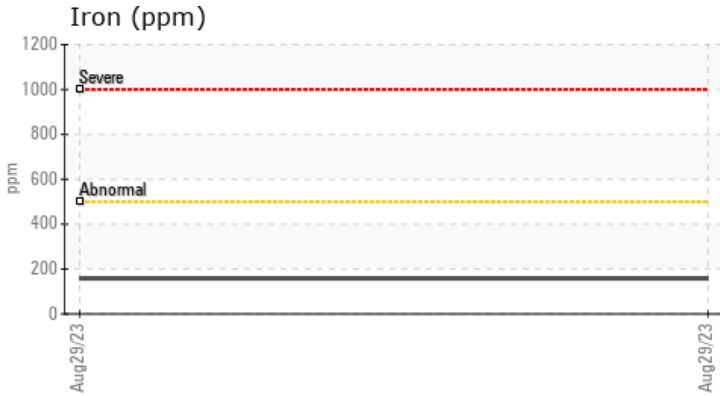
Depot: VOLV08737
Unique No: 10658572
Signed: Jonathan Hester
Report Date: 27 Sep 2023



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

CEMEX VOLVO L90H 624746 - REAR AXLE



Sample No: VCP417085
Oil Type: CHEVRON 1000 THF
Job No: CEMEX



SAMPLE INFORMATION

Sample Number	VCP417085	---	---	---
Sample Date	29 Aug 2023	---	---	---
Machine Hours	10617	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	█45.1	---	---	---
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CONTAMINATION

Silicon	ppm	█21	---	---	---
Sodium	ppm	█7	---	---	---
Potassium	ppm	█0	---	---	---



WEAR METALS

Iron	ppm	█103	---	---	---
Copper	ppm	█25	---	---	---
Lead	ppm	█0	---	---	---
Tin	ppm	█2	---	---	---
Aluminum	ppm	█1	---	---	---
Chromium	ppm	█1	---	---	---
Molybdenum	ppm	█2	---	---	---
Nickel	ppm	█0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█2	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█3552	---	---	---
Magnesium	ppm	█20	---	---	---
Zinc	ppm	█1424	---	---	---
Phosphorus	ppm	█1171	---	---	---
Barium	ppm	█0	---	---	---
Boron	ppm	99	---	---	---

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.

Depot: VOLV08737
Unique No: 10659103
Signed: Wes Davis
Report Date: 22 Sep 2023



CONSTRUCTION EQUIPMENT



GRAPHS

