

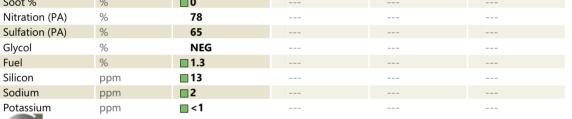
Sample No:VCP392860Oil Type:VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

VOLVO

Job No:

392569

SAMPLE INFORMATION VCP392860 Sample Number Sample Date 26 Jan 2024 Machine Hours 3985 **Oil Hours** 500 Oil Changed Changed Sample Status NORMAL **OIL CONDITION** Visc @ 100°C cSt 12.3 % Oxidation (PA) 88 CONTAMINATION % NEG Water % Soot % 0 Nitration (PA) % 78 % Sulfation (PA) 65



WEAR METALS 9 Iron ppm 4 Copper ppm Lead ■ <1 ppm ■ <1 Tin ppm Aluminum ppm 2 Chromium ppm <1 Molybdenum 42 ppm Nickel ppm **||** <1 Titanium 0 ppm Silver 0 ppm Manganese ppm 0 Vanadium 0 ppm

ADDITIVES Calcium 1702 ppm Magnesium 554 ppm 1100 Zinc ppm Phosphorus 946 ppm Barium 0 🔲 ppm 29 Boron ppm



STRONGCO EQUIPMENT--CALGARY

7923 54TH STREET SE CALGARY, AB CA T2C 4R7 Contact: Tracey Lewin tlewin@strongco.com T: (403)216-1010 F: (403)216-1016

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. The condition of the oil is acceptable for the time in service.

 Depot:
 VOLVO3909

 Unique No:
 5733705

 Signed:
 Wes Davis

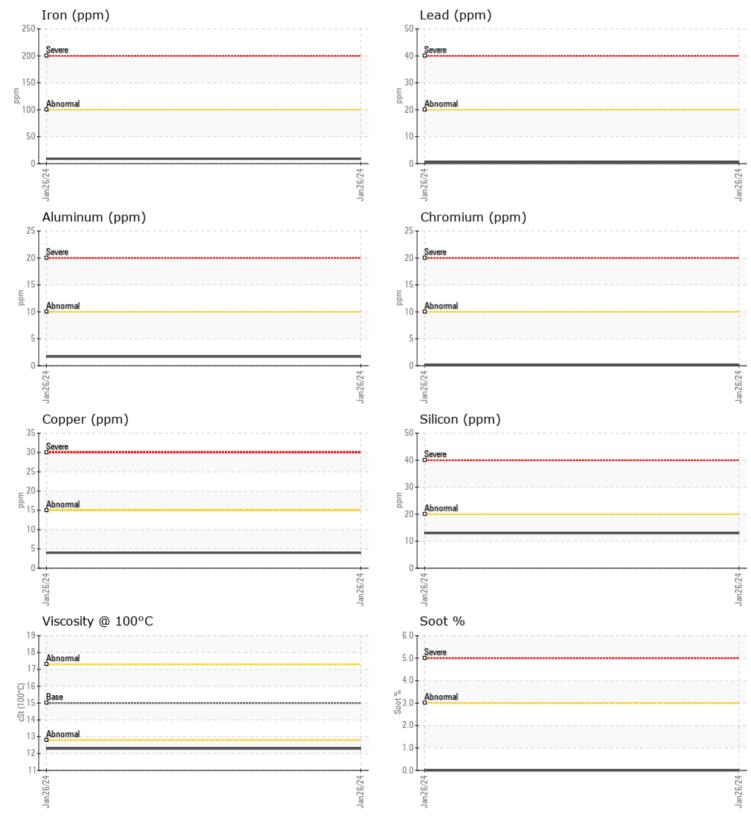
 Report Date:
 22 Feb 2024

Report Id: VOLVO3909 [WCAMIS] 02616595 (Generated: 02/22/2024 13:51:21) Rev: 1



GRAPHS

VOLVO



Report Id: VOLVO3909 [WCAMIS] 02616595 (Generated: 02/22/2024 13:51:25) Rev: 1

CONSTRUCTION EQUIPMENT VINCI 392569 VOLVO EC480EL 314955 - HYDRAULIC SYSTEM

Sample No:	VCP392872
Oil Type:	VOLVO SUPER HYDRAULIC OIL 46
Job No:	392569

VOLVO

Aluminum

Chromium

Nickel

Silver

Titanium

Manganese

Vanadium

Calcium

Zinc

Barium

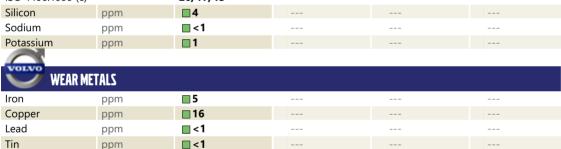
Boron

Magnesium

Phosphorus

Molybdenum

SAMPLE INFORMATION Sample Number VCP392872 Sample Date 26 Jan 2024 Machine Hours 3985 Oil Hours 2000 Oil Changed Changed Sample Status ABNORMAL **OIL CONDITION** Visc @ 40°C cSt **A** 37.3 CONTAMINATION Water % NEG 9526 Particles >4µm Particles >6µm 800 Particles > 14µm **46** ISO 4406:1999 (c) 20/17/13 4





STRONGCO EQUIPMENT--CALGARY

7923 54TH STREET SE CALGARY, AB CA T2C 4R7 Contact: Tracey Lewin tlewin@strongco.com T: (403)216-1010 F: (403)216-1016

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. Viscosity of sample indicates oil is within ISO 32 range, advise investigate. The condition of the oil is acceptable for the time in service.

Depot:	VOLVO3909
Unique No:	5733794
Signed:	Kevin Marson
Report Date:	23 Feb 2024



|| <1

4

0

0

0

0

0

85

1

361

399

0 🔲

0

0

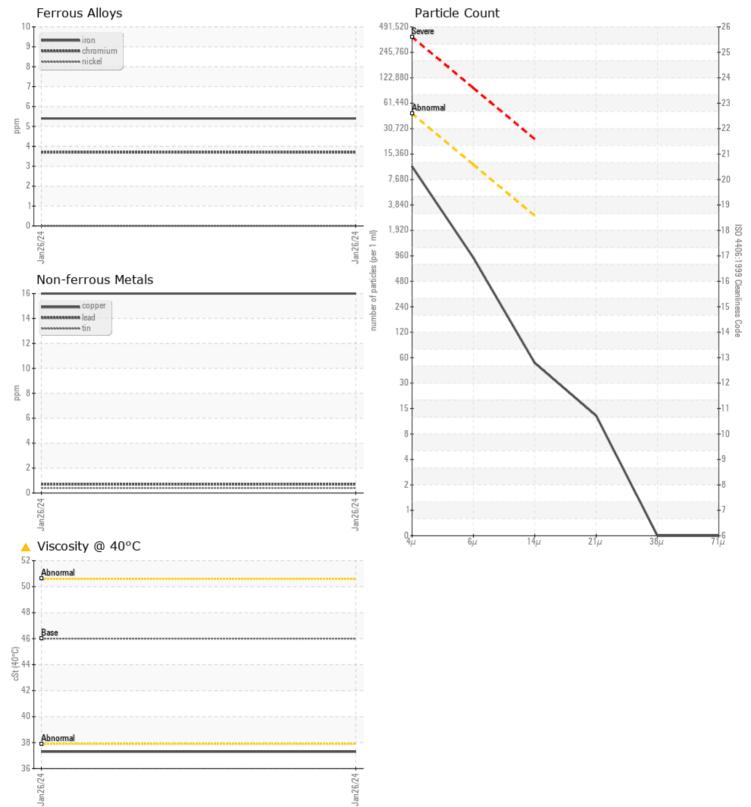
ppm

ADDITIVES



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VOLVO



Report Id: VOLVO3909 [WCAMIS] 02616684 (Generated: 02/23/2024 10:02:17) Rev: 1

CONSTRUCTION EQUIPMENT VINCI 392569 VOLVO EC480EL 314955 - SWING DRIVE

Sample No:	VCP394362
Oil Type:	VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No:	392569

SAMPLE INFORMATION

VOLVO

Sample Number		VCP394362	 	
Sample Date		26 Jan 2024	 	
Machine Hours		3985	 	
Oil Hours		1000	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL COND	ITION			
Visc @ 40°C	cSt	124	 	
CONTAM	NATION			
Water	%	NEG	 	
Silicon	ppm	12	 	
Sodium	ppm	 <1	 	
Potassium	ppm		 	
WEAR M	ETALS			
Iron	ppm	91	 	
Copper	ppm	31	 	
Lead	ppm	1	 	
Tin	ppm	0	 	
Aluminum	ppm	2	 	
Chromium	ppm	1	 	
Molybdenum	ppm	0	 	
Nickel	ppm	0	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	2	 	



ppm

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101 **ADDITIVES** Calcium ppm 11 Magnesium 3 ppm Zinc ppm 34 Phosphorus 915 ppm Barium **||** <1 ppm Boron 152 ppm



STRONGCO EQUIPMENT--CALGARY

7923 54TH STREET SE CALGARY, AB CA T2C 4R7 Contact: Tracey Lewin tlewin@strongco.com T: (403)216-1010 F: (403)216-1016

Diagnosis

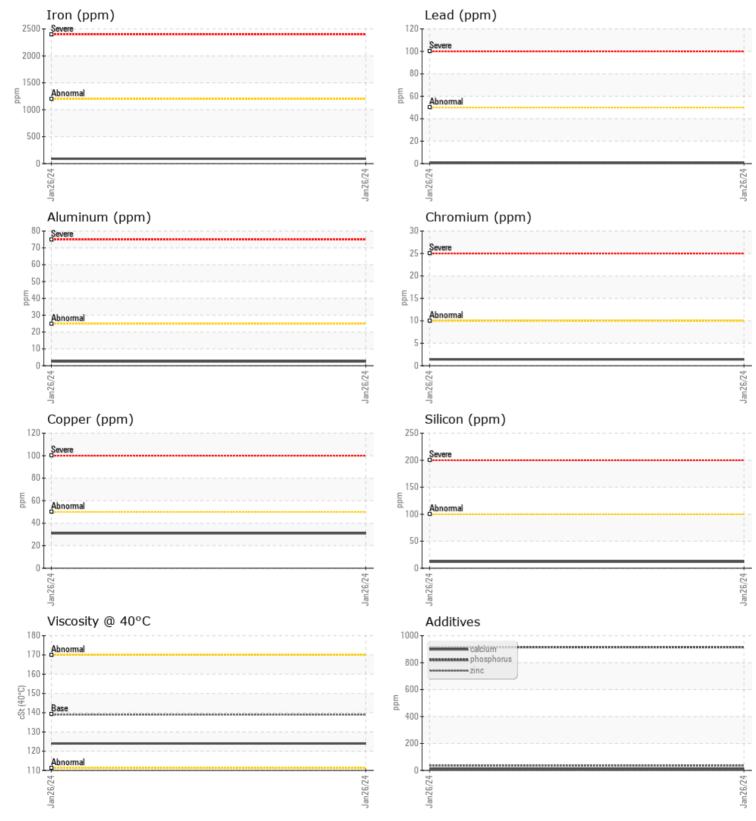
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot:	VOLVO3909
Unique No:	5733893
Signed:	Wes Davis
Report Date:	20 Feb 2024



GRAPHS

VOLVO



Report Id: VOLVO3909 [WCAMIS] 02616783 (Generated: 02/20/2024 17:18:28) Rev: 1

CONSTRUCTION EQUIPMENT VINCI 392569 VOLVO EC480EL 314955 - FRONT LEFT FINAL DRI

Sample No:	VCP394317
Oil Type:	VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No:	392569

8

ppm

ppm

ppm

VOLVO

Oil Hours

Water

Silicon

Sodium

Barium

Boron

SAMPLE INFORMATION VCP394317 Sample Number Sample Date 26 Jan 2024 Machine Hours 3985 1000 Oil Changed Changed NORMAL Sample Status **OIL CONDITION** Visc @ 40°C cSt 153 CONTAMINATION % NEG 297 ppm



ADDITIVES 51 Calcium ppm 18 Magnesium ppm Zinc 15 ppm Phosphorus 924 ppm

0 🔲

123



STRONGCO EQUIPMENT--CALGARY

7923 54TH STREET SE CALGARY, AB CA T2C 4R7 Contact: Tracey Lewin tlewin@strongco.com T: (403)216-1010 F: (403)216-1016

Diagnosis

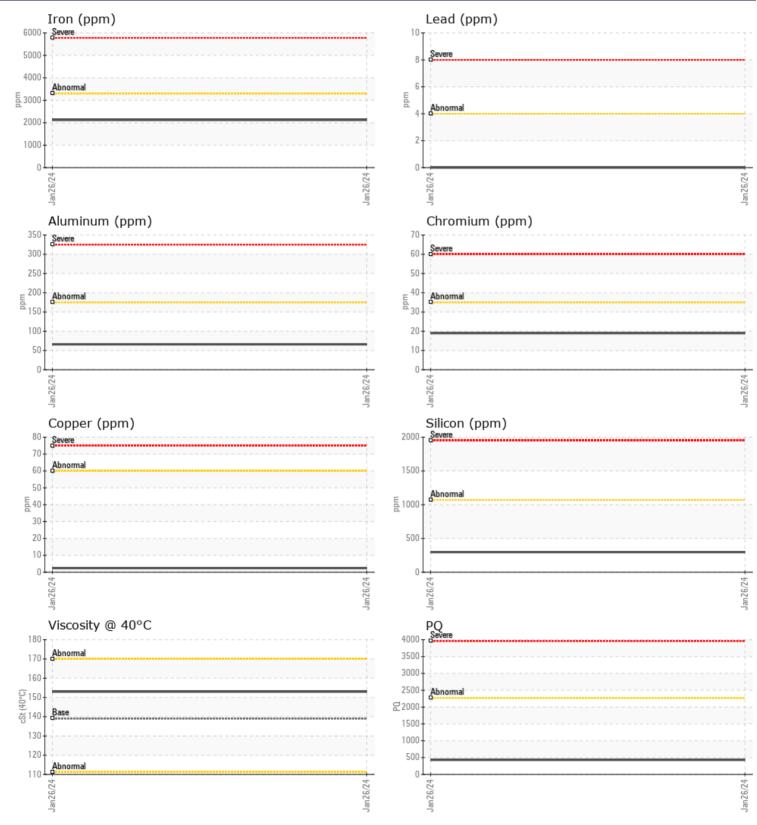
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: VOLVO3909 Unique No: 5733895 Signed: Kevin Marson **Report Date:** 21 Feb 2024



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VOLVO



Report Id: VOLVO3909 [WCAMIS] 02616785 (Generated: 02/21/2024 14:18:20) Rev: 1

Contact/Location: Tracey Lewin - VOLVO3909

CONSTRUCTION EQUIPMENT VINCI 392569 VOLVO EC480EL 314955 - FRONT RIGHT FINAL DR

Sample No: VCP380884 **Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5

Job No: 392569

VOLVO

SAMPLE	INFORMATION			
Sample Number	-	VCP380884	 	
Sample Date		26 Jan 2024	 	
Machine Hours		3985	 	
Oil Hours		1000	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CON	DITION			
Visc @ 40°C	cSt	135	 	
CONTAM	IINATION			
Water	%	NEG	 	
Silicon	ppm	12	 	
Sodium	ppm	 <1	 	
Potassium	ppm	■ <1	 	
WEAR M	IETALS			
Iron	ppm	131	 	
Copper	ppm	23	 	
Lead	ppm	 <1	 	
Tin	ppm	0	 	
Aluminum	ppm	2	 	
Chromium	ppm	2	 	
Molybdenum	ppm	0	 	
Nickel	ppm	□ <1	 	
Titanium	ppm	0	 	



STRONGCO EQUIPMENT--CALGARY

7923 54TH STREET SE CALGARY, AB CA T2C 4R7 Contact: Tracey Lewin tlewin@strongco.com T: (403)216-1010 F: (403)216-1016

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.

Aluminum	ppm	2	
Chromium	ppm	2	
Molybdenum	ppm	0	
Nickel	ppm		
Titanium	ppm	0	
Silver	ppm	0	
Manganese	ppm	2	
Vanadium	ppm	0	

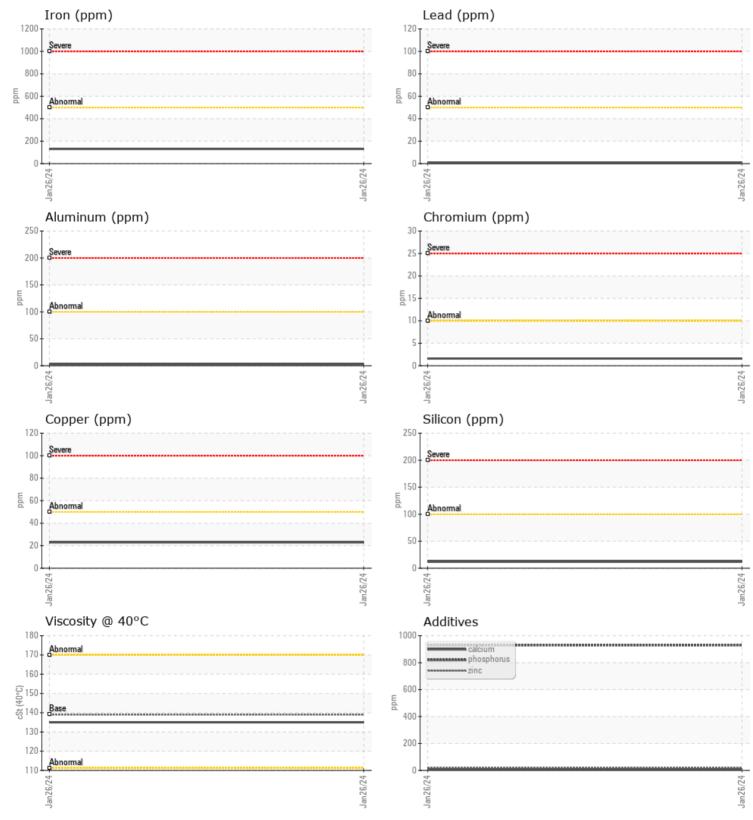
VOLVO **ADDITIVES** Calcium 7 ppm Magnesium **1** ppm Zinc ppm 22 🔲 Phosphorus 930 ppm Barium <1 ppm Boron 140 ppm

> Depot: VOLVO3909 Unique No: 5733894 Signed: Wes Davis Report Date: 20 Feb 2024



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VOLVO



Report Id: VOLVO3909 [WCAMIS] 02616784 (Generated: 02/20/2024 17:18:20) Rev: 1

Contact/Location: Tracey Lewin - VOLVO3909