CONSTRUCTION EQUIPMENT HERC RENTALS VOLVO A30G 752902 - DIESEL ENGINE



Sample No:VCP437328Oil Type:VOLVO ULTR

TOTATO

VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Job No:

Zinc

Barium

Boron

Phosphorus

HERC RENTALS

	NFORMATION				-
Sample Number		VCP437328	VCP436225	VCP425147	
Sample Date		29 Apr 2024	11 Oct 2023	24 Aug 2023	
Machine Hours		2093	1074	532	
Oil Hours		0	0	0	
Oil Changed		Changed	N/A	Changed	
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL	
VOLVO					
🔰 OIL CONDI	TION				
Visc @ 100°C	cSt	12.7	11.9	10.6	
Base Number (BN)		7.3	10.2	5.8	
Oxidation (PA)	%	85	77	59	
VOLVO					
Contamin	ATTUN				
Water	%	NEG	NEG	NEG	
Soot %	%	0.6	0.2	0.4	
Nitration (PA)	%	87	63	84	
Sulfation (PA)	%	66	61	57	
Glycol	%	NEG	NEG	NEG	
Fuel	%	<1.0	<1.0	0.3	
Silicon	ppm	6	8	31	
Sodium	ppm	■ <1	 <1	5	
Potassium	ppm	2	 < 1	4	
WEAR ME	ZIAT				
<u> </u>	•	20	7	28	
ron Copper	ppm	▲ 28	▲ 97	▲ 203	
Lead	ppm		1	3	
Tin	ppm	□ <1 □ 2	2	4	
Aluminum	ppm	2	2	3	
Chromium	ppm	■z ■<1	□ < 1	<1	
Molybdenum	ppm	5 3	51	87	
Nickel	ppm	2	2	2	
Titanium	ppm	<1	<1	<1	
Silver	ppm		1	0	
Vanganese	ppm	0 <1	1	5	
Vanadium	ppm	0	0	<1	
	ppm	U	U	N I	
VOLVO	_				
ADDITIVE:	2				
Calcium	ppm	1895	1784	2348	
Magnesium	ppm	489	494	93	

1177

1019

0

57

1222

999

0

17



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC

8418 PALM RIVER ROAD TAMPA, FL US 33619 Contact: KENNY HANEY khaney@flaglerce.com T: (813)630-0077 F: (813)630-2233

Diagnosis

Oil and filter 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.The copper level has decreased, but is still abnormal. All other 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:
 VOLVO0093

 Unique No:
 11077115

 Signed:
 Don Baldridge

 Report Date:
 17 Jun 2024

Report Id: VOLVO0093 [WUSCAR] 06209654 (Generated: 06/18/2024 15:55:41) Rev: 1

1202

914

0 🔲

42

ppm

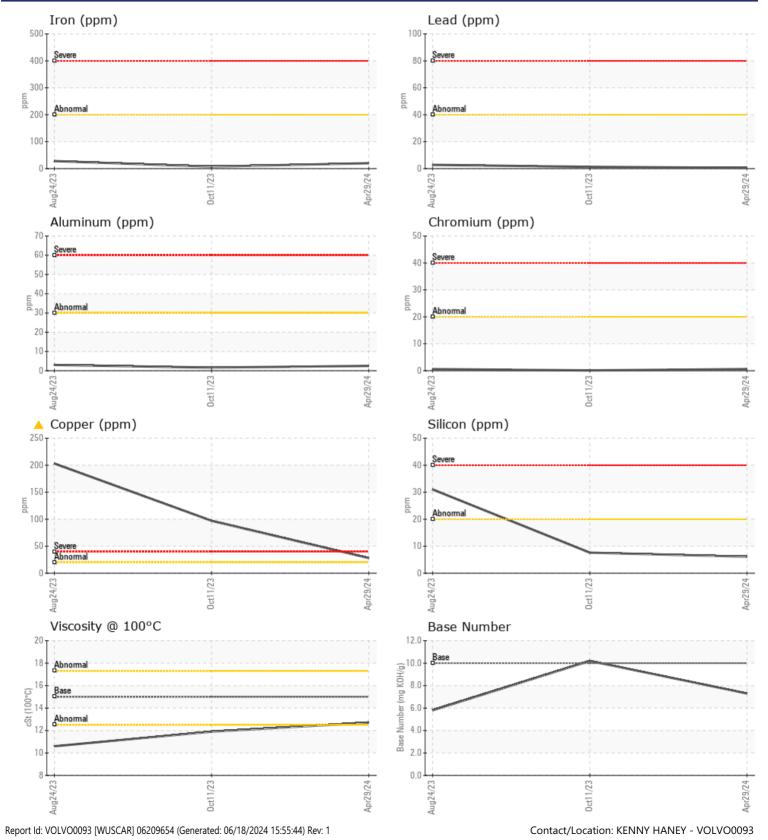
ppm

ppm

ppm



GRAPHS



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VOLVO

CONSTRUCTION EQUIPMENT HERC RENTAL VOLVO A30G 752902 - TRANSMISSION



Sample No: VCP437331 Oil Type:

VOLVO AUTOMATIC TRANSMISSION FLUID AT102

Job No:

Boron

HERC RENTAL

	INFORMATION			
Sample Number		VCP437331	 	
Sample Date		16 Jun 2024	 	 ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPM
Machine Hours		2093	 	 8418 PALM RIVER ROAD
Oil Hours		0	 	 TAMPA, FL
Oil Changed		Changed	 	 US 33619
Sample Status		NORMAL	 	 Contact: KENNY HANEY
				khaney@flaglerce.com
VOLVO				T: (813)630-0077
OIL CON	DITION		 	 F: (813)630-2233
Visc @ 40°C	cSt	28.7	 	
				Diamagia
	MINATION		 	 Diagnosis
		NEC		Oil and filter change at the time
Water	%	NEG	 	 sampling has been noted. Resam
Silicon	ppm	8	 	 at the next service interval to
Sodium	ppm	■4	 	 monitor.All component wear rate are normal. There is no indicatior
Potassium	ppm	3	 	 any contamination in the fluid. The
VOLVO				condition of the fluid is acceptab
WEAR M	IETALS			for the time in service.
Iron	ppm	29	 	 •
Copper	ppm	23	 	
Lead	ppm		 	
Tin	ppm	5	 	
Aluminum	ppm	20	 	
Chromium	ppm		 	
Molybdenum	ppm	 <1	 	
Nickel	ppm	2	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	3	 	
Vanadium	ppm	0	 	
Vanadidini	ppm	Ū		
VOLVO				
ADDITIV	/ES			
Calcium	ppm	70	 	 _
Magnesium	ppm	3	 	
Zinc	ppm	15	 	
Phosphorus	ppm	185	 	
Barium	ppm	1	 	
P				



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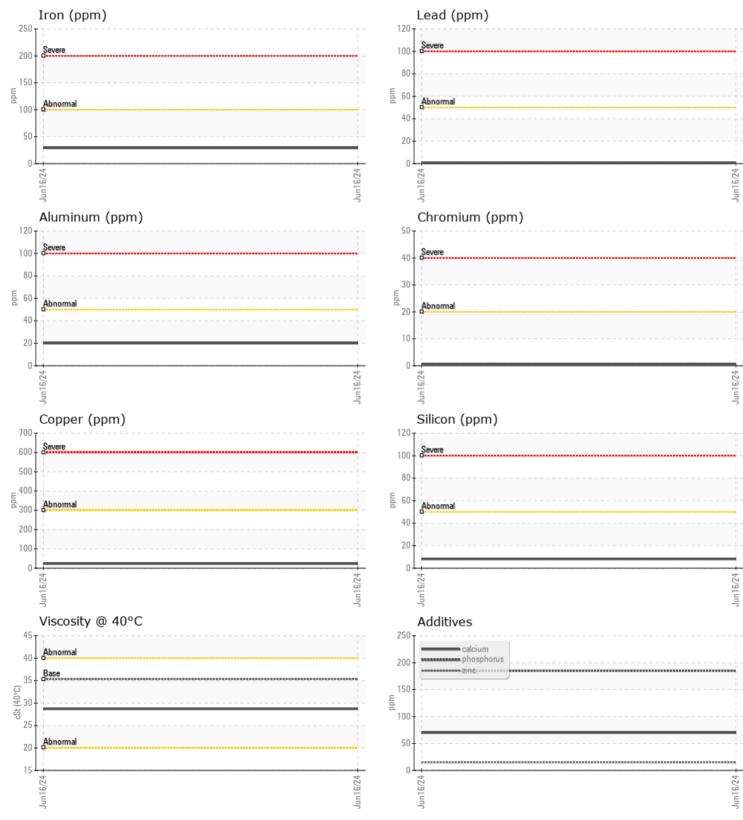
Depot: VOLVO0093 Unique No: 11083472 Signed: Angela Borella Report Date: 17 Jun 2024 Contact/Location: KENNY HANEY - VOLVO0093

78

ppm



GRAPHS



Report Id: VOLVO0093 [WUSCAR] 06210608 (Generated: 06/17/2024 16:48:24) Rev: 1

CONSTRUCTION EQUIPMENT HERC RENTAL VOLVO A30G 752902 - BRAKE COOLING SYSTEM

Sample No:VCP445549Oil Type:VOLVO WB 101Job No:HERC RENTAL

VOLVO

SAMPLE INFORMATION

Sample Number	-	VCP445549	VCP436023	
Sample Date		29 Apr 2024	11 Oct 2023	
Machine Hours		2093	1074	
Oil Hours		0	0	
Oil Changed		Not Changd	N/A	
Sample Status		ABNORMAL	ABNORMAL	
OIL COND				
		· .	<u> </u>	
Visc @ 40°C	cSt	46.3	44.1	
VOLVO				
Contami	INATION			
Water	%	NEG	NEG	
Silicon	ppm	15	14	
Sodium	ppm	2	3	
Potassium	ppm	5	3	
	pp			
VOLVO				
VEAR MI	ETALS			
Iron	ppm	11	5	
Copper	ppm	<u> </u>	▲ 202	
Lead	ppm	 <1	2	
Tin	ppm	0	<1	
Aluminum	ppm	1	<1	
Chromium	ppm	 <1	0	
Molybdenum	ppm	 <1	0	
Nickel	ppm	 <1	 <1	
Titanium	ppm	<1	0	
Silver	ppm	0	0	
Manganese	ppm	1	1	
Vanadium	ppm	0	0	

ADDITIVES Calcium 3766 3624 ppm Magnesium 8 8 ppm 1481 Zinc ppm 1517 Phosphorus 1243 1268 ppm 2 Barium ppm 1 127 Boron ppm 123



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC

8418 PALM RIVER ROAD TAMPA, FL US 33619 Contact: KENNY HANEY khaney@flaglerce.com T: (813)630-0077 F: (813)630-2233

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor.The copper level is abnormal. All other 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.

 Depot:
 VOLVO0093

 Unique No:
 11083360

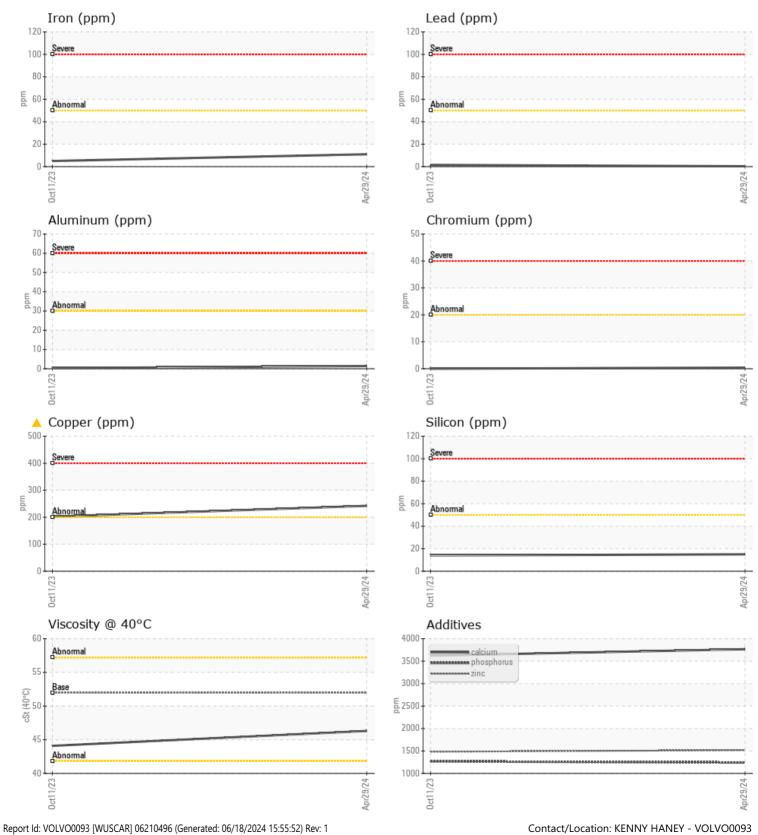
 Signed:
 Sean Felton

 Report Date:
 18 Jun 2024

 Contact/Location: KENNY HANEY - VOLVO0093



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CONSTRUCTION EQUIPMENT HERC RENTALS VOLVO A30G 752902 - HYDRAULIC SYSTEM

Sample No: VCP444777 Oil Typ

VOLVO

pe:	VOLVO SUPER HYDRAULIC OIL 46
•	

Job No:

HERC RENTALS

SAMPLE IN	IFORMATION			
Sample Number		VCP444777	VCP436014	
Sample Date		04 Apr 2024	11 Oct 2023	
Machine Hours		2093	1074	
Oil Hours		0	0	
Oil Changed		Not Changd	N/A	
Sample Status		NORMAL	ABNORMAL	
OIL CONDIT	TION			
Visc @ 40°C	cSt	42.9	43.5	
Acid Number (AN)	mg KOH/g	0.42		
	_			

CONTAMINATION NEG Water % **0.260** Particles >4µm 2379 Particles >6µm 725 Particles >14µm 74 ISO 4406:1999 (c) 18/17/13 Silicon ppm 4 5 Sodium ppm 1 < 1 < 1 Potassium ppm **||** <1

WEAR METALS

Iron	ppm	6	4	
Copper	ppm	4	4	
Lead	ppm	2	2	
Tin	ppm	0	0	
Aluminum	ppm	 <1	< 1	
Chromium	ppm	 <1	0	
Molybdenum	ppm	0	0	
Nickel	ppm	0	0	
Titanium	ppm	0	<1	
Silver	ppm	0	0	
Manganese	ppm	0	0	
Vanadium	ppm	<1	0	

ADDITI	IVES			
Calcium	ppm	65	30	
Magnesium	ppm	0	0	
Zinc	ppm	459	414	
Phosphorus	ppm	352	311	
Barium	ppm	0	0	
Boron	ppm	0	0	



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC

8418 PALM RIVER ROAD TAMPA, FL US 33619 Contact: KENNY HANEY khaney@flaglerce.com T: (813)630-0077 F: (813)630-2233

Diagnosis

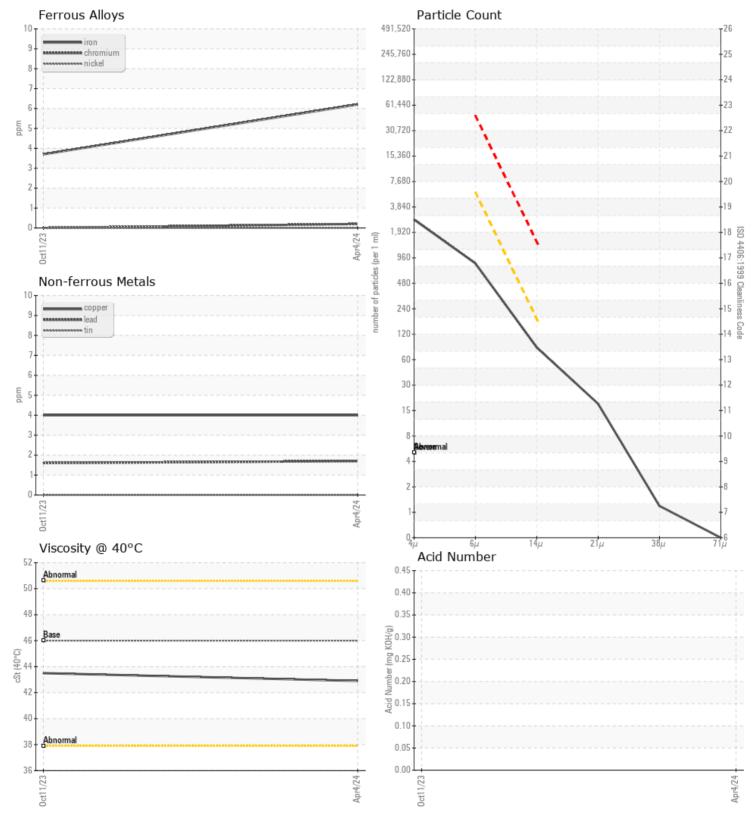
Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot: VOLVO0093 Unique No: 11082865 Signed: Wes Davis Report Date: 17 Jun 2024



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VOLVO



Report Id: VOLVO0093 [WUSCAR] 06210001 (Generated: 06/17/2024 10:29:23) Rev: 1

CONSTRUCTION EQUIPMENT HERC VOLVO A30G 752902 - FRONT AXLE



Sample No: VCP445540

VOLVO

Oil Type:	VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No:	HERC

SAMPLE INFORMATION VCP445540 Sample Number VCP426215 Sample Date 29 Apr 2024 24 Aug 2023 Machine Hours 2093 532 Oil Hours 0 0 Oil Changed Changed Not Changd NORMAL NORMAL Sample Status **OIL CONDITION** Visc @ 40°C cSt 232 92.1 CONTAMINATION Water % NEG NEG 10 6 Silicon ppm Sodium 0 🔲 2 ppm Potassium ppm 2 4

VOLVO				
WEAR N	METALS			
Iron	ppm	110	237	
Copper	ppm	5	17	
Lead	ppm	 <1	0	
Tin	ppm		 <1	
Aluminum	ppm	1	2	
Chromium	ppm	2	5	
Molybdenum	ppm	5	9	
Nickel	ppm	1	3	
Titanium	ppm	<1	<1	
Silver	ppm	0	<1	
Manganese	ppm	2	8	
Vanadium	ppm	0	<1	

ADDITI	VES			
Calcium	ppm	204	786	
Magnesium	ppm	4 3	0	
Zinc	ppm	141	318	
Phosphorus	ppm	955	1294	
Barium	ppm	0	0	
Boron	ppm	132	223	



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC

8418 PALM RIVER ROAD TAMPA, FL US 33619 Contact: KENNY HANEY khaney@flaglerce.com T: (813)630-0077 F: (813)630-2233

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:
 VOLVO0093

 Unique No:
 11083368

 Signed:
 Wes Davis

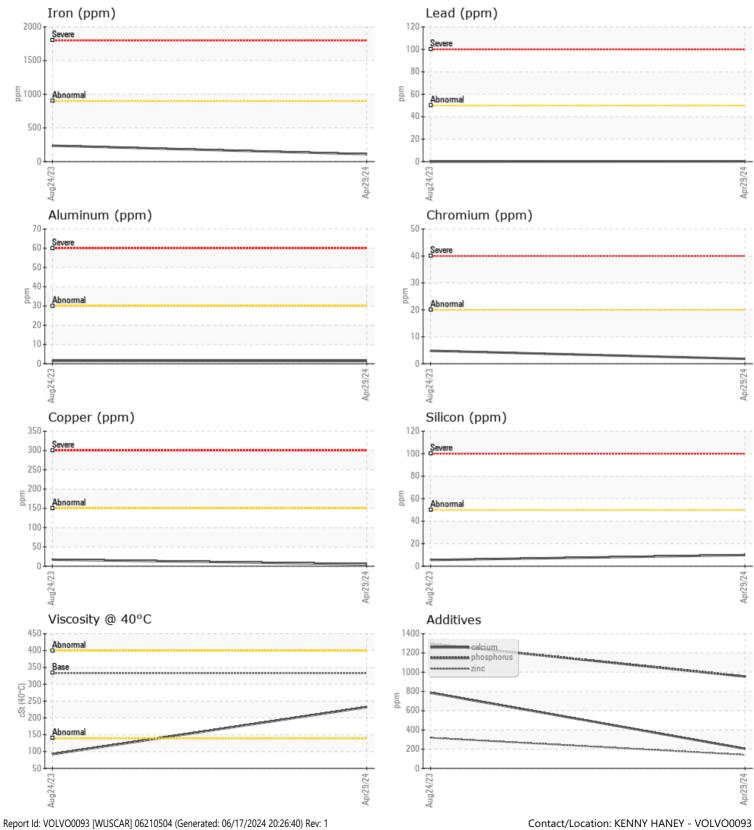
 Report Date:
 17 Jun 2024

 Contact/Location: KENNY HANEY - VOLVO0093



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VOLVO



CONSTRUCTION EQUIPMENT HERC RENTAL VOLVO A30G 752902 - BOGIE/CENTER AXLE



Sample No: VCP437334

VOLVO

Oil Type:	VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No:	HERC RENTAL

SAMPLE INFORMATION VCP437334 Sample Number Sample Date 09 Apr 2024 Machine Hours 2093 Oil Hours 0 Oil Changed Not Changd NORMAL Sample Status **OIL CONDITION** Visc @ 40°C cSt 221 CONTAMINATION Water % NEG Silicon ppm 7 Sodium **||** <1 ppm Potassium ppm 2 WEAR METALS 105 Iron ppm Copper ppm **4** Lead ppm **||** <1 Tin ppm ■ <1 Aluminum ppm 1 Chromium 2 ppm Molybdenum ppm 5 Nickel 1 ppm Titanium <1 ppm Silver 0 ppm Manganese ppm 2 Vanadium ppm 0 01 **ADDITIVES** Calcium ppm 398 Magnesium 45 ppm 228 Zinc ppm



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC

8418 PALM RIVER ROAD TAMPA, FL US 33619 Contact: KENNY HANEY khaney@flaglerce.com T: (813)630-0077 F: (813)630-2233

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:
 VOLVO0093

 Unique No:
 11083366

 Signed:
 Wes Davis

 Report Date:
 17 Jun 2024

 Contact/Location: KENNY HANEY - VOLVO0093

1097

0 🔲

161

Phosphorus

Barium

Boron

ppm

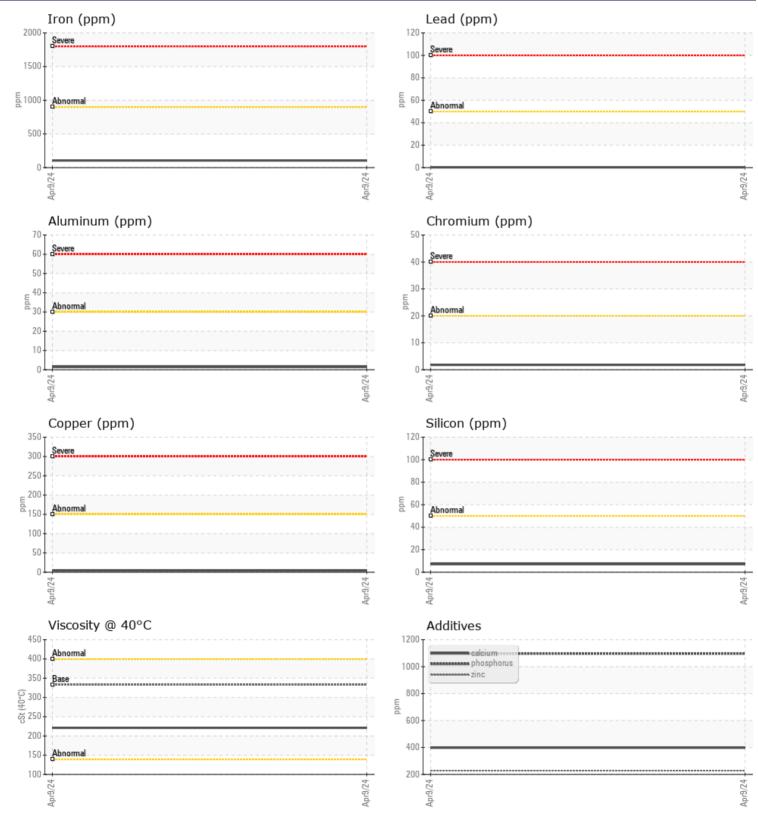
ppm

ppm



GRAPHS

VOLVO



Report Id: VOLVO0093 [WUSCAR] 06210502 (Generated: 06/17/2024 20:26:31) Rev: 1

CONSTRUCTION EQUIPMENT VOLVO A30G 752902 - REAR AXLE HERC



Sample No: VCP436018

VOLVO

Oil Type:	VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No:	HERC

SAMPLE INFORMATION VCP436018 Sample Number VCP426217 VCP426216 Sample Date 11 Oct 2023 24 Aug 2023 24 Aug 2023 Machine Hours 1074 532 532 Oil Hours 0 0 0 Oil Changed N/A Changed Changed NORMAL NORMAL NORMAL Sample Status **OIL CONDITION** Visc @ 40°C cSt 251 91.4 92.0 CONTAMINATION Silicon ppm 10 5 6 Sodium 0 2 2 ppm Potassium 1 4 4 ppm WEAR METALS Iron ppm 99 259 261 Copper ppm 3 13 16 Lead ppm ■ <1 0 0 Tin ppm **||** <1 < 1 <1 Aluminum ppm **||** <1 < 1 2 Chromium ppm 2 5 5 Molybdenum ppm 3 11 11 4 Nickel 1 3 ppm Titanium 0 ppm <1 <1 Silver 0 0 0 ppm Manganese 9 3 9

<1

747

295

1374

251

0

0

<1

819

<1 338

1370

250

0

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC

8418 PALM RIVER ROAD TAMPA, FL US 33619 Contact: KENNY HANEY khaney@flaglerce.com T: (813)630-0077 F: (813)630-2233

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:	VOLVO0093
Unique No:	10739712
Signed:	Wes Davis

9712 avis **Report Date:** 14 Nov 2023

ppm

ppm

ppm

ppm

ppm

ppm

ppm

ppm

ADDITIVES

0

140

13

91

0

100

1028

Vanadium

Calcium

Zinc

Barium

Boron

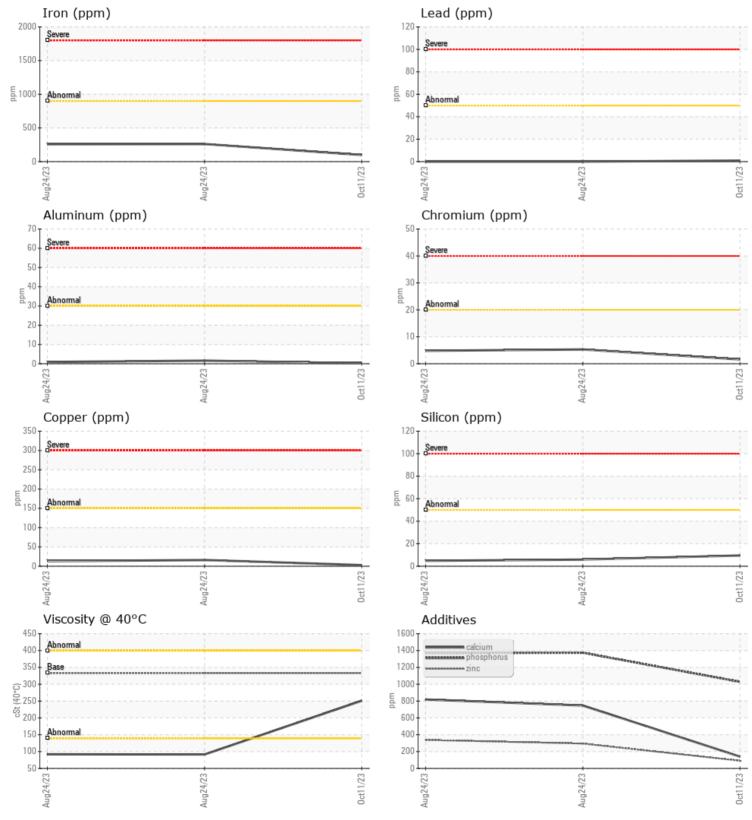
Magnesium

Phosphorus



GRAPHS

VOLVO



Report Id: VOLVO0093 [WUSCAR] 06005950 (Generated: 11/15/2023 13:41:32) Rev: 1

VOLVO

CONSTRUCTION EQUIPMENT HERC RENTAL VOLVO A30G 752902 - DROP BOX



Sample No:VCP437067Oil Type:VOLVO PREMIL

HFRC RENTAL

e: VOLVO PREMIUM GEAR OIL 85W-140 GL-5

Job No:

Titanium

Manganese

Vanadium

01

Calcium

Zinc

Barium

Boron

Magnesium

Phosphorus

Silver

ppm

ADDITIVES

<1

0

0

■ 107 ■ 4

88

■ <1

148

2037

2

SAMPLE INFORMATION VCP437067 Sample Number Sample Date 29 Apr 2024 Machine Hours 2093 Oil Hours 0 Oil Changed Not Changd NORMAL Sample Status **OIL CONDITION** Visc @ 40°C cSt 60.3 CONTAMINATION Water % NEG Silicon 33 ppm Sodium 5 🔲 ppm Potassium ppm 2 WEAR METALS Iron ppm 98 🔳 Copper ppm 2 Lead ppm **||** <1 Tin ppm ■ <1 Aluminum ppm 9 Chromium 1 ppm Molybdenum ppm 10 Nickel ■ <1 ppm



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC

8418 PALM RIVER ROAD TAMPA, FL US 33619 Contact: KENNY HANEY khaney@flaglerce.com T: (813)630-0077 F: (813)630-2233

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:	VOLVO0093
Unique No:	11083354
Signed:	Sean Felton
Report Date:	18 Jun 2024



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