

CONSTRUCTION EQUIPMENT W07009539 VOLVO A30G 740132 - DIESEL ENGINE



 Sample No:
 VCP336445

 Oil Type:
 MOBIL 15W40

 Job No:
 W07009539

SAMPLE IN	NFORMATION				
Sample Number	-	VCP336445	VCP302535	VCP248879	VCP219025
Sample Date		12 Jan 2022	18 May 2021	03 Sep 2019	19 Sep 2017
Machine Hours		4703	3976	2998	3569
Oil Hours		0	0	500	0
Oil Changed		Changed	Changed	Changed	Changed
Sample Status		NORMAL	NORMAL	NORMAL	NORMAL
OIT CONDI.	TION				
Visc @ 100°C	cSt	12.2	■13.4	12.4	12.76
Base Number (BN)	mg KOH/g	■9.8			
Oxidation (PA)	%	85	71	55	7 2

CONTAI	MINATION				
Water	%		□0.108		
Soot %	%	■ 0.3	□ 0.4	□ 0.2	□0.4
Nitration (PA)	%	80	84	72	67
Sulfation (PA)	%	63	59	51	5 5
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	■2.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	4	7
Sodium	ppm	2	4	2	3
Potassium	ppm	□ 0	□0	2	6

WEAR METALS	8	□ 12		
	■8	□ 12		
Iron ppm		1 4	6	1 2
Copper ppm	2	4	6	2
Lead ppm	■<1	- <1	- <1	1
Tin ppm	■<1	1	- <1	0
Aluminum ppm	1	2	2	2
Chromium ppm	■<1	- <1	- <1	1
Molybdenum ppm	40	4 5	2 6	■39
Nickel ppm	■ 0	0	0	< 1
Titanium ppm	<1	<1	8	<1
Silver ppm	■ 0	0	□ 0	□0
Manganese ppm	■<1	< 1	- <1	< 1
Vanadium ppm	0	0	0	0

ADDITI	VES				
Calcium	ppm	1652	■1408	■ 1356	■1580
Magnesium	ppm	578	741	□ 645	□ 546
Zinc	ppm	1189	1 037	779	848
Phosphorus	ppm	■981	■847	□ 706	□748
Barium	ppm	0	0	0	0
Boron	ppm	■36	■36	6 1	1 4



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F: (804)266-1611

Diagnosis

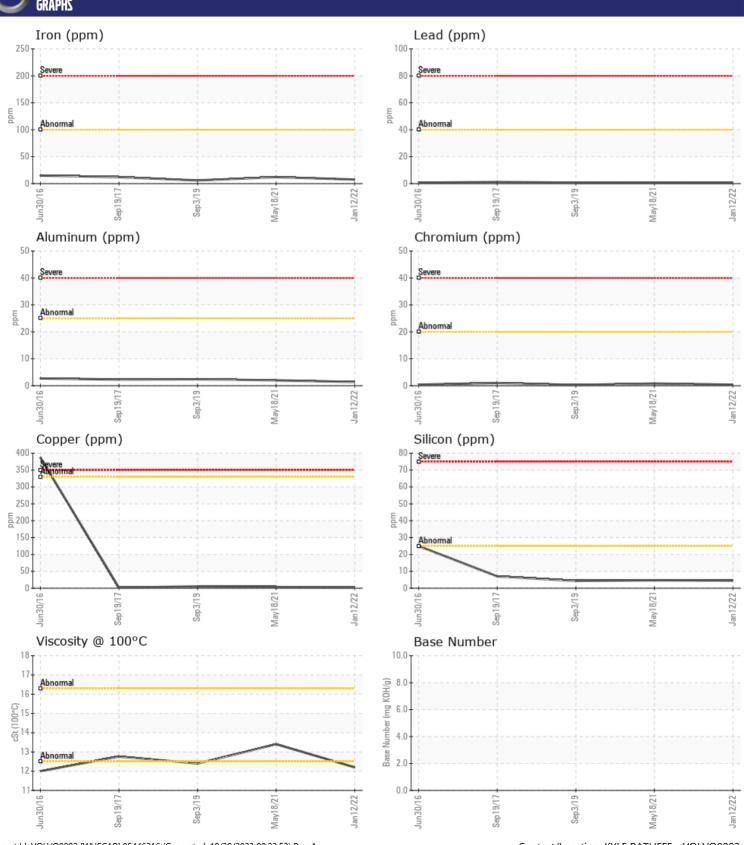
Resample at the next service interval to monitor. No other corrective action is recommended at this time.All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot:VOLVO8882Unique No:9815410Signed:Wes DavisReport Date:24 Jan 2022











CONSTRUCTION EQUIPMENT VOLVO A30G 740132 - TRANSMISSION



Sample No: VCP202421

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Job No:

SAMPLE	INFORMATION				
Sample Number		VCP202421	VCE239280	VCE197071	
Sample Date		08 Nov 2016	18 Aug 2015	17 Aug 2015	
Machine Hours		2126	17	17	
Oil Hours		0	17	17	
Oil Changed		N/A	Changed	Changed	
Sample Status		NORMAL	NORMAL	NORMAL	
VOLVO	NITION				
OIL COND	IIIIUN				
Visc @ 40°C	cSt	28.41	■30.37	■ 30.75	
VOLVO					
CONTAM	INATION				
Water	%			□ 0.068	
Silicon		16	19	20	
Sodium	ppm			3	
Potassium	ppm	□ 5	□4 □3	_	
Potassium	ppm	■ 3	3	2	
VOLVO					
WEAR M	ETALS				
Iron	ppm	61	■19	1 9	
Copper	ppm	■39	4	■3	
Lead	ppm	-<1	- <1	0	
Tin	ppm	■ 9	1	 <1	
Aluminum	ppm	■34	2	2	
Chromium	ppm	■<1	- <1	<1	
Molybdenum	ppm	0	0	0	
Nickel	ppm	■7	- <1	<1	
Titanium	ppm	0	0	0	
Silver	ppm	0	0	0	
Manganese	ppm	□ 5	4	4	
Vanadium	ppm	0	0	0	
ADDITIV	ZES				
Calcium	ppm	158	160	158	
Magnesium	ppm	■3	- <1	0	
Zinc	ppm	11	5	1	
Phosphorus	ppm	251	244	□ 255	
Barium	ppm	□ <1	<u> </u>	0	
Boron	ppm	□ 73	90	■80	
			-		



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Diagnosis

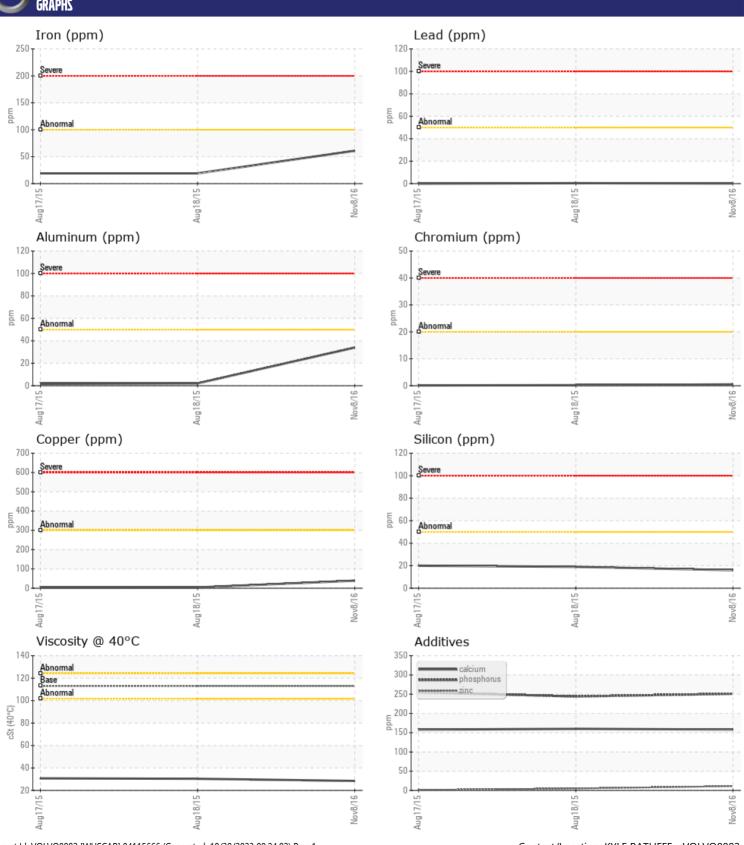
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The condition of the oil is acceptable for the time in service.

Depot:VOLVO8882Unique No:7624033Signed:Jonathan HesterReport Date:05 Dec 2016











CONSTRUCTION EQUIPMENT 3126 VOLVO A30G 740132 - HYDRAULIC SYSTEM



Sample No: VCP302534

Oil Type: VOLVO SUPER HYDRAULIC OIL 46

Job No: 3126

VOLVO				
SAMPLE IN	NFORMATION			
Sample Number	-	VCP302534	 	
Sample Date		18 May 2021	 	
Machine Hours		3976	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIT CONDI.	TION			
			 _	
Visc @ 40°C	cSt	45.3	 	
Acid Number (AN)	mg KOH/g	0.463	 	
VOLVO				
CONTAMIN	IATION			
Particles >4µm	<u> </u>	417	 	
Particles >6µm		■80	 	
Particles >14µm		16	 	
ISO 4406:1999 (c)		16/13/11	 	
Silicon	ppm	■8	 	
Sodium	ppm	<u> </u>	 	
Potassium	ppm	■ <1	 	
WEAR ME	TAIC			
_				
Iron	ppm	10	 	
Copper	ppm	■ 8	 	
Lead	ppm	4	 	
Tin	ppm	■ <1	 	
Aluminum	ppm	■3	 	
Chromium	ppm	■ <1	 	
Molybdenum	ppm	■ <1	 	
Nickel	ppm	■0	 	
Titanium	ppm	0	 	
Silver	ppm	<1	 	
Manganese	ppm	■ <1	 	
Vanadium	ppm	0	 	
VOLVO			 	
ADDITIVES	2			
Calcium	_	69	 	
Magnesium	ppm	2	 	
Zinc	ppm	■ 433	 	
Phosphorus	ppm	337	 	
rnospilolus	phili	<u> </u>	 	



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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 amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot:VOLVO8882Unique No:9545435Signed:Angela BorellaReport Date:26 Jun 2021

ppm

ppm

0

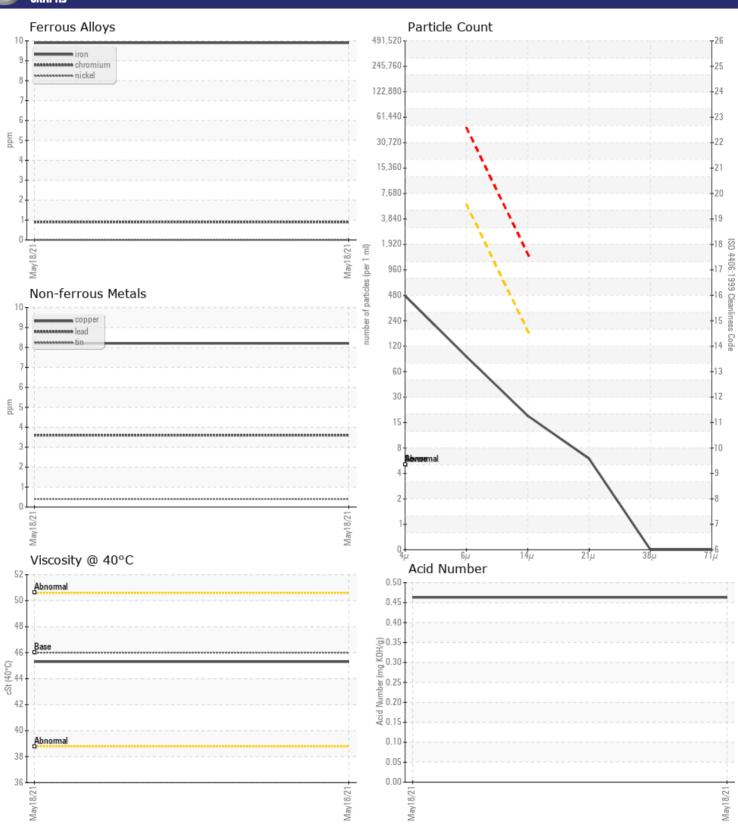
Barium

Boron











CONSTRUCTION EQUIPMENT 3126 VOLVO A30G 740132 - FRONT AXLE



Sample No: VCP302724
Oil Type: VOLVO WB 102

Job No: 3126

VOLVO				
	INFORMATION	N		
Sample Number		VCP302724		
Sample Date		18 May 2021		
Machine Hours		3976		
Oil Hours		0		
Oil Changed		Changed		
Sample Status		NORMAL		
OIL CON	NITION			
			_	
Visc @ 40°C	cSt	51.8		
VOLVO				
CONTAN	MINATION			
Silicon	ppm	3		
Sodium	ppm	1 4		
Potassium	ppm	■0		
	ρρ			
VOLVO	AFTALC			
WEAR N	JE I ALS			_
Iron	ppm	286		
Copper	ppm	7		
Lead	ppm	<1		
Tin	ppm	<1		
Aluminum	ppm	0		
Chromium	ppm	5		
Molybdenum	ppm	<1		
Nickel	ppm	2		
Titanium	ppm	<1		
Silver	ppm	<1		
Manganese	ppm	5		
Vanadium	ppm	0		
VOLVO				
ADDITIV	IES			
Calcium	ppm	19		
Magnesium	ppm	0		
Zinc	ppm	7		
Phosphorus	ppm	2343		
Barium	ppm	0		
Boron	ppm	297		



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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:
 VOLVO8882

 Unique No:
 9550620

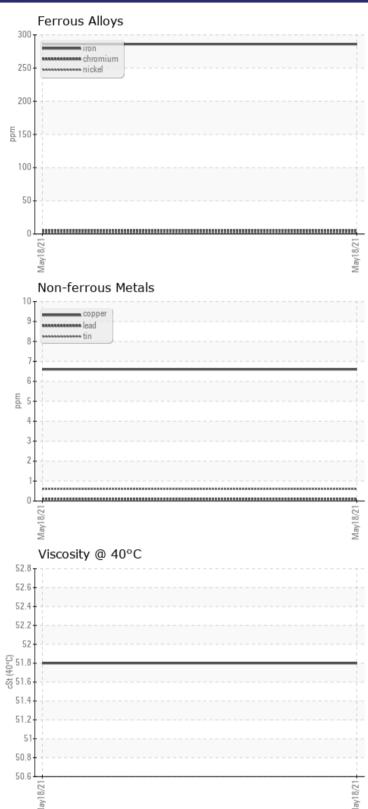
 Signed:
 Don Baldridge

 Report Date:
 18 Jun 2021











CONSTRUCTION EQUIPMENT 13182 VOLVO A30G 740132 - BOGIE/CENTER AXLE



Sample No: VCP409208
Oil Type: VOLVO WB 102

Job No: 13182

ZAMPI E	E INFORMATIO	N		
Sample Number		VCP409208	VCP302726	
Sample Date		09 Oct 2023	18 May 2021	
Machine Hours		6692	3976	
Oil Hours		0092	0	
Oil Changed		Changed	Changed	
Sample Status		NORMAL	ABNORMAL	
		NORIVIAL	ADNORIVIAL	
VOLVO				
OIL CON	IDITION			
Visc @ 40°C	cSt	48.7	□ 51.1	
CONTAI	MINATION			
	MINATION			
Silicon	ppm	14	4	
Sodium	ppm	5	3	
Potassium	ppm	2	□ 0	
VOLVO				
WEAR N	NETALS			
ron	ppm	147	201	
Copper	ppm	25	10	
Lead	ppm	0	0	
Tin	ppm	1	<1	
Aluminum	ppm	2	0	
Chromium	ppm	2	3	
Molybdenum	ppm	0	<1	
Nickel	ppm	1	1	
Titanium	ppm	<1	0	
Silver	ppm	0	0	
Manganese	ppm	3	4	
/anadium	ppm	0	0	
	F F 111	_		
VOLVO	ure .			
ADDITIV	NEZ			
Calcium	ppm	2720	44	
Magnesium	ppm	14	2	
Zinc	ppm	1125	16	
Phosphorus	ppm	1526	2297	
Barium	ppm	0	0	
Boron	ppm	186	290	



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Diagnosis

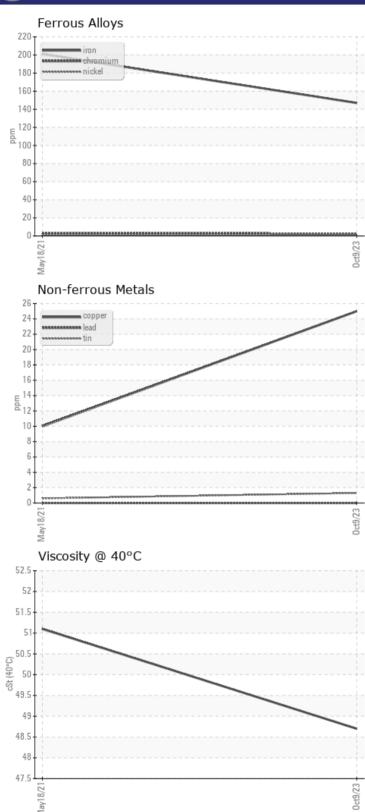
Resample at the next service interval to monitor. All component wear rates are normal. No visible metal detected. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot:VOLVO8882Unique No:10695155Signed:Don BaldridgeReport Date:16 Oct 2023











CONSTRUCTION EQUIPMENT
13182 VOLVO A30G 740132 - BOGIE/CENTER RIGHT FINAL DRIVE

Sample No: VCP418103 Oil Type: **NOT GIVEN**

13182

Job No:

SAMPLE II	NFORMATION						
Sample Number	-	VCP418103					
Sample Date		03 Oct 2023					
Machine Hours		6692					
Oil Hours		0					
Oil Changed		N/A					
Sample Status		NORMAL					
OIL CONDITION							
Visc @ 40°C	cSt	■48.8					

VOLVO				
CONTAMII	NATION			
Silicon	ppm	15	 	
Sodium	ppm	■ 3	 	
Potassium	ppm	□0	 	
WEAR ME	TALS			

Iron ppm 170 Copper ppm 24 Lead ppm <1 Tin ppm 1 Aluminum ppm <1 Chromium ppm 2 Molybdenum ppm 0	
Lead ppm <1	
Tin ppm 1 Aluminum ppm <1	
Aluminum ppm <1 Chromium ppm 2	
Chromium ppm 2	
Molybdenum ppm 0	
Nickel ppm <1	
Titanium ppm 0	
Silver ppm 0	
Manganese ppm 3	
Vanadium ppm 0	

ADDITIV	VES			
Calcium	ppm	2305	 	
Magnesium	ppm	10	 	
Zinc	ppm	974	 	
Phosphorus	ppm	1320	 	
Barium	ppm	0	 	
Boron	ppm	202	 	



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Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.All component wear rates are normal. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 46 range, advise investigate. Confirm oil type.

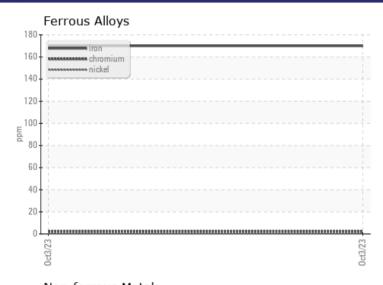
Depot: VOLVO8882 **Unique No:** 10681832 Signed: Angela Borella Report Date: 09 Oct 2023



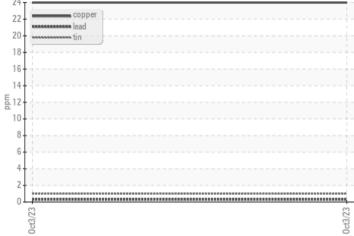




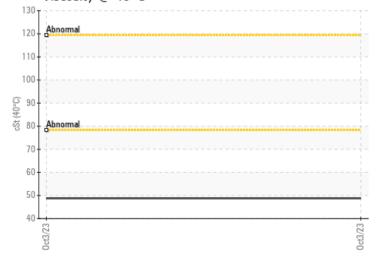
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Viscosity @ 40°C





CONSTRUCTION EQUIPMENT 3126 VOLVO A30G 740132 - REAR AXLE



Sample No: VCP302718
Oil Type: VOLVO WB 102

Job No: 3126

VOLVO				
	INFORMATION			
Sample Number		VCP302718	 	
Sample Date		18 May 2021	 	
Machine Hours		3976	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
VOLVO	DITION			
OIL CON	NULLIUM			
Visc @ 40°C	cSt	52.9	 	
CONTAM	IINATION			
Silicon		5	 	
Sodium	ppm	■ 4	 	
Potassium	ppm	■4	 	
Potassium	ppm	0	 	
VOLVO				
WEAR M	IETALS			
Iron	ppm	369	 	
Copper	ppm	6	 	
Lead	ppm	0	 	
Tin	ppm	<1	 	
Aluminum	ppm	<1	 	
Chromium	ppm	7	 	
Molybdenum	ppm	<1	 	
Nickel	ppm	2	 	
Titanium	ppm	<1	 	
Silver	ppm	0	 	
Manganese	ppm	6	 	
Vanadium	ppm	0	 	
ADDITIV	/FC			
		40		
Calcium	ppm	49	 	
Magnesium	ppm	0	 	
Zinc	ppm	21	 	
Phosphorus	ppm	2315	 	
Barium	ppm	0	 	
Boron	ppm	301	 	



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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:
 VOLVO8882

 Unique No:
 9550626

 Signed:
 Don Baldridge

 Report Date:
 18 Jun 2021







