

CONSTRUCTION EQUIPMENT VOLVO A40G 353267 - DIESEL ENGINE



Sample No: VCP447745

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

Job No:

VOLVO				
SAMPLE IN	NFORMATION			
Sample Number		VCP447745	VCP445620	
Sample Date		04 Jun 2024	25 Apr 2024	
Machine Hours		2719	2215	
Oil Hours		0	0	
Oil Changed		Changed	Changed	
Sample Status		ATTENTION	ABNORMAL	
OIL CONDI.	TION			
Visc @ 100°C	cSt	11.9	12.2	
Base Number (BN)		9.5	4.7	
Oxidation (PA)	%	78	92	
Oxidation (FA)	70	70	32	
VOLVO				
CONTAMIN	NATION			
Water	%	NEG	NEG	
Soot %	%	■ 0.3	■0.6	
Nitration (PA)	%	62	94	
Sulfation (PA)	%	61	71	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	2.0	
Silicon	ppm	4	1 2	
Sodium	ppm	■<1	2	
Potassium	ppm	1	2	
WEAR ME	ZIAT			
Iron		7	<u></u> 26	
Copper	ppm	9	■ 50	
Lead	ppm	■ <1	= <1	
Tin	ppm	1	2	
Aluminum		2	3	
Chromium	ppm	□ <1	<1	
Molybdenum	ppm	44	4 3	
Nickel	ppm	■3	△ 6	
Titanium	ppm	<1	<1	
Silver	ppm	■0	0	
Manganese	ppm	■ <1	1	
Vanadium	ppm	0	0	
Variadiani	PPIII	· ·	U	
ADDITIVE:	5			
Calcium	ppm	1575	□1660	
Magnesium	ppm	469	447	
Zinc	ppm	1015	□1045	
Phosphorus	ppm	■825	■824	
Barium	ppm	■0	0	
Boron	ppm	■34	5	
			_	



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

Diagnosis

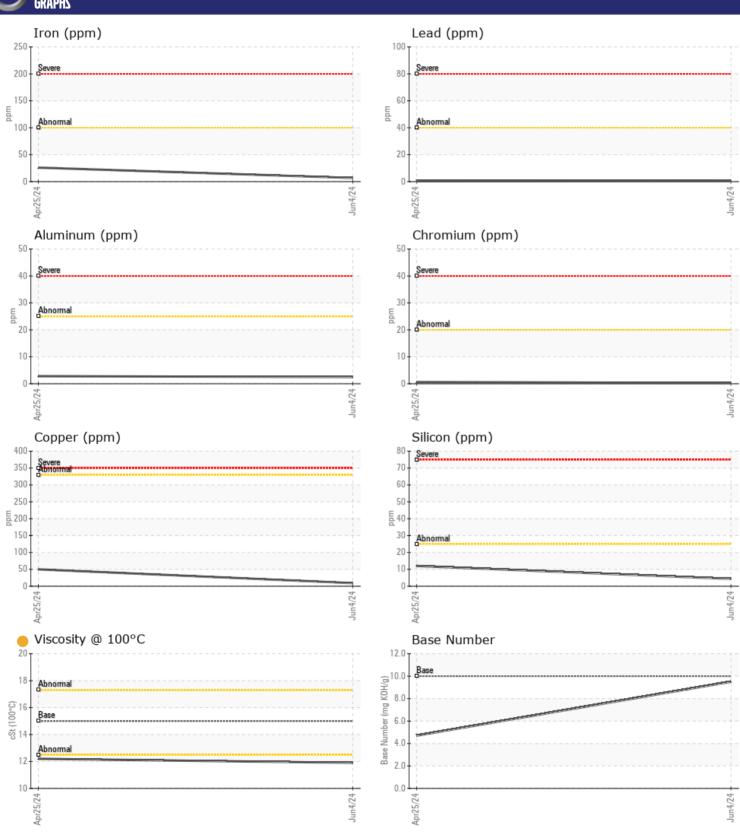
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot:VOLVO0090Unique No:11073568Signed:Sean FeltonReport Date:13 Jun 2024











CONSTRUCTION EQUIPMENTVOLVO A40G 353267 - TRANSMISSION (AUTO)



Sample No: VCP445625

Oil Type: VOLVO AUTOMATIC TRANSMISSION FLUID AT102

Job No:

SAMPLE	INFORMATION	N		
Sample Number	_	VCP445625	 	
Sample Date		25 Apr 2024	 	
Machine Hours		2215	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		ABNORMAL	 	
		7.5.101		
VOLVO	DITION			
OIL CONE	JIIIUN			
Visc @ 40°C	cSt	28.3	 	
CONTAM	INATION			
Water	%	NEG	 	
Silicon	ppm	5	 	
Sodium	ppm	■3	 	
Potassium	ppm	■ <1	 	
VOLVO				
WEAR M	IETALS			
Iron	ppm	□ 20	 	
Copper	ppm	■8	 	
Lead	ppm	0	 	
Tin	ppm	■<1	 	
Aluminum	ppm	■8	 	
Chromium	ppm	■0	 	
Molybdenum	ppm	■0	 	
Nickel	ppm	■0	 	
Titanium	ppm	0	 	
Silver	ppm	■ 0	 	
Manganese	ppm	1	 	
Vanadium	ppm	0	 	
	1.1			
VOLVO	IFC			
ADDITIV	F2			
Calcium	ppm	■89	 	
Magnesium	ppm	■0	 	
Zinc	ppm	■0	 	
Phosphorus	ppm	197	 	
Barium	ppm	■0	 	
Boron	ppm	■92	 	



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5151 DR MARTIN LUTHER KING BLVD FORT MYERS, FL US 33905 Contact: TODD LARK tlark@altaequipfl.com

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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. Moderate concentration of visible dirt/debris present in the fluid. The condition of the fluid is acceptable for the time in service.

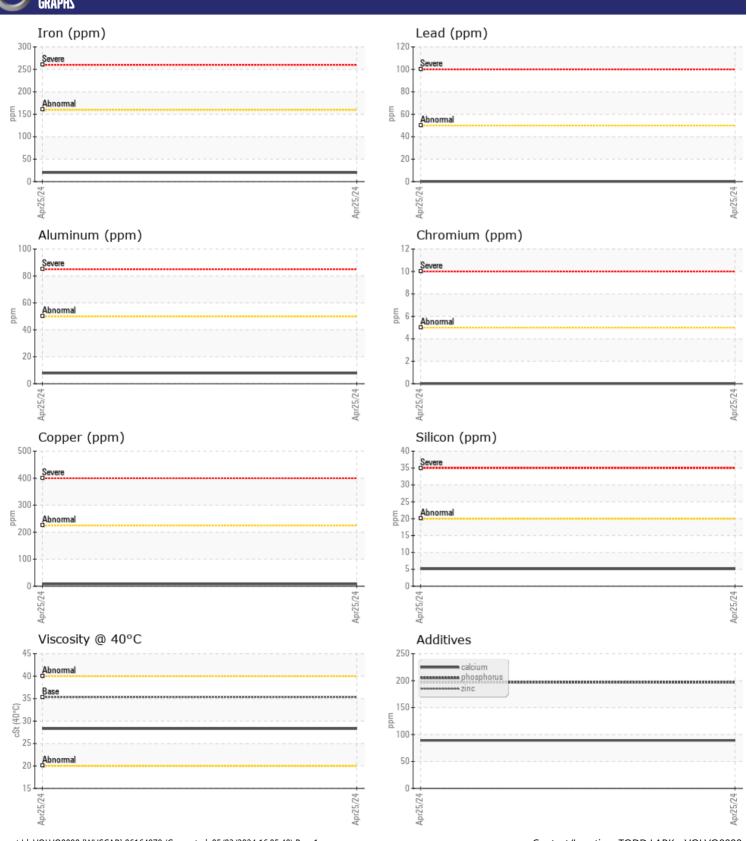
Depot:VOLVO0090Unique No:11005697Signed:Jonathan HesterReport Date:03 May 2024







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CONSTRUCTION EQUIPMENT VOLVO A40G 353267 - WET DISC BRAKE



Sample No: VCP437305

Oil Type: VOLVO WET BRAKE TRANSAXLE OIL

Job No:

SAMPLE	INFORMATION	N		
Sample Number	_	VCP437305	 	
Sample Date		25 Apr 2024	 	
Machine Hours		2215	 	
Oil Hours		0	 	
Oil Changed		Not Changd	 	
Sample Status		ABNORMAL	 	
Sample Status		7151101111712		
VOLVO	NITION			
OIL CONE	JIIIUN			
Visc @ 40°C	cSt	40.9	 	
CONTAM	ΙΝΔΤΙΏΝ			
_	%	NEG		
Water			 	
Silicon	ppm	■17	 	
Sodium	ppm	■12	 	
Potassium	ppm	■0	 	
VOLVO				
WEAR M	ETALS			
Iron	ppm	<u>^</u> 25	 	
Copper	ppm	<u> </u>	 	
Lead	ppm	1	 	
Tin	ppm	0	 	
Aluminum	ppm	■ <1	 	
Chromium	ppm	■<1	 	
Molybdenum	ppm	0	 	
Nickel	ppm	5	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	 <1	 	
Vanadium	ppm	0	 	
	Pp			
VOLVO	FC		 	
ADDITIV	F7			
Calcium	ppm	■3595	 	
Magnesium	ppm	10	 	
Zinc	ppm	1490	 	
Phosphorus	ppm	■1288	 	
Barium	ppm	■0	 	
Boron	ppm	101	 	



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5151 DR MARTIN LUTHER KING BLVD FORT MYERS, FL US 33905 Contact: TODD LARK tlark@altaequipfl.com

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Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The iron level is abnormal. The copper level is abnormal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

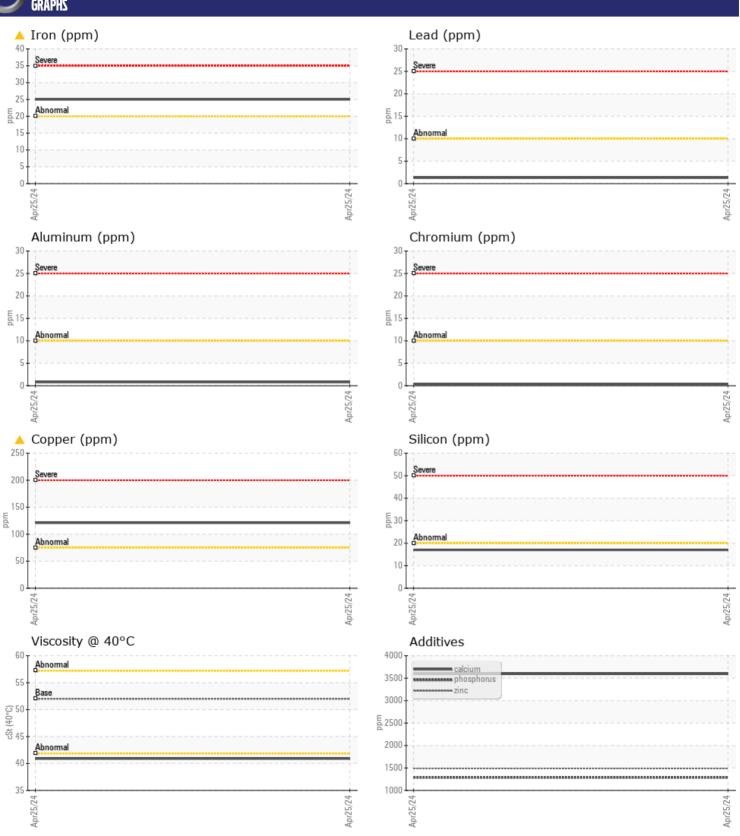
Depot:VOLVO0090Unique No:11005558Signed:Jonathan HesterReport Date:03 May 2024

Contact/Location: TODD LARK - VOLVO0090









Sample No: VCP436848

Oil Type: VOLVO SUPER HYDRAULIC OIL 46

Job No: SWA553574-10

VOLVO	INFORMATION			
_	INFURMATION		_	
Sample Number		VCP436848	VCP445605	
Sample Date		04 May 2024	25 Apr 2024	
Machine Hours		2599	2215	
Oil Hours		0	0	
Oil Changed		N/A	Not Changd	
Sample Status		NORMAL	ABNORMAL	
OIL CON	DITION			
Visc @ 40°C	cSt	43.1	45.3	
Acid Number (AN		0.37	0.43	
Acid Number (Alv	ing KOn/g	U.3 /	0.43	
VOLVO				
CONTAN	MINATION			
Water	%	NEG	NEG	
Particles >4µm		2195	14541	
Particles >6µm		244	□3949	
Particles > 14µm		23	△ 624	
ISO 4406:1999 (c))	18/15/12	21/19/16	
Silicon	ppm	11	4	
Sodium	ppm	■0	1 2	
Potassium	ppm	1	2	
VOLVO	AETAL C			
WEAR M	JE I ALS			
Iron	ppm	■ 9	■3	
Copper	ppm	2	- <1	
Lead	ppm	■ 3	< 1	
Tin	ppm	■<1	0	
Aluminum	ppm	■3	2	
Chromium	ppm	■<1	0	
Molybdenum	ppm	■ <1	■3	
Nickel	ppm	■ 0	0	
Titanium	ppm	<1	0	
Silver	ppm	0	0	
Manganese	ppm	■<1	0	
Vanadium	ppm	0	0	
ADDITIV	771			
_				
Calcium 	ppm	■ 67	115	
Magnesium	ppm	2	6	
Zinc	ppm	432	416	

■326



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5151 DR MARTIN LUTHER KING BLVD FORT MYERS, FL US 33905 Contact: TODD LARK tlark@altaequipfl.com

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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:VOLVO0090Unique No:11017153Signed:Wes DavisReport Date:08 May 2024

ppm

ppm

ppm

349

0

0

Phosphorus

Barium

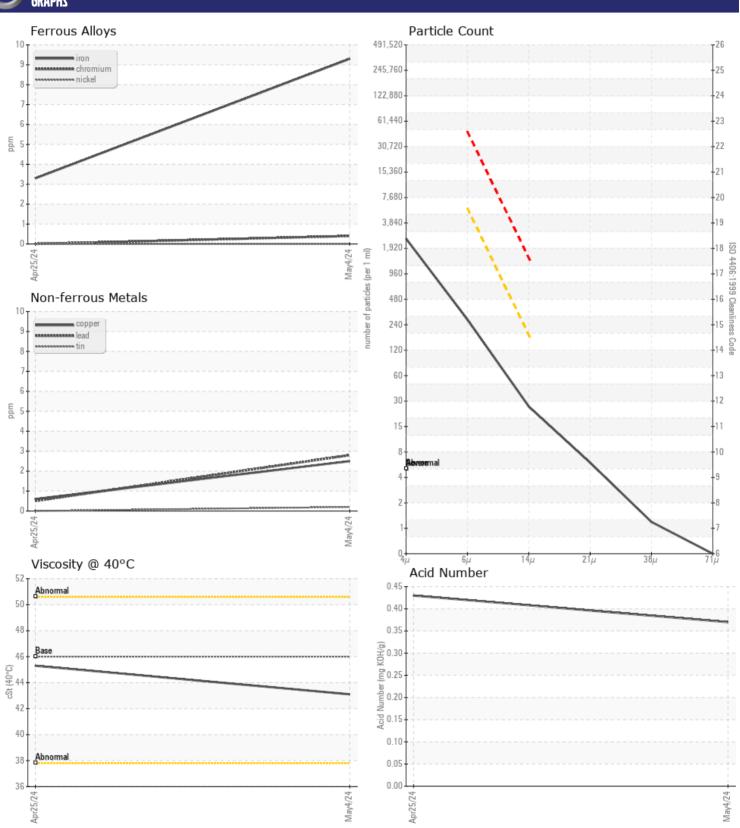
Boron







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CONSTRUCTION EQUIPMENT VOLVO A40G 353267 - DROP BOX



Sample No: VCP445627

Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5

Job No:

VOLVO SAMPLE	INFORMATION			
Sample Number		VCP445627	 	
Sample Date		25 Apr 2024	 	
Machine Hours		23 Apr 2024 2215	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
		ABNORMAL		
Sample Status		ADNURIVIAL	 	
VOLVO				
OIL CON	DITION			
Visc @ 40°C	cSt	48.1	 	
VOLVO	IINATION -			
LUNIAM	IINATION			
Water	%	NEG	 	
Silicon	ppm	40	 	
Sodium	ppm	■8	 	
Potassium	ppm	■ 3	 	
WEAR M	IETAL C			
_	IC I ML7			
Iron	ppm	■296	 	
Copper	ppm	19	 	
Lead	ppm	■0	 	
Tin	ppm	■0	 	
Aluminum	ppm	■0	 	
Chromium	ppm	2	 	
Molybdenum	ppm	10	 	
Nickel	ppm	■ <1	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	6	 	
Vanadium	ppm	0	 	
ADDITIV	TC			
_				
Calcium	ppm	■99	 	
Magnesium	ppm	4	 	
Zinc	ppm	■128	 	
Phosphorus	ppm	2097	 	
Barium	ppm	0	 	
Boron	ppm	114	 	



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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. Moderate concentration of visible dirt/debris present in the oil. The oil viscosity is lower than normal. Confirm oil type.

Depot:VOLVO0090Unique No:11005555Signed:Jonathan HesterReport Date:03 May 2024

Contact/Location: TODD LARK - VOLVO0090







GRAPHS

