

CONSTRUCTION EQUIPMENT VOLVO A45G 752059 - DIESEL ENGINE



Sample No: VCP449978

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

Job No:

CAMDIE	NFORMATION			
	AFUKMA HUN			
Sample Number		VCP449978	VCP445954	
Sample Date		04 Jun 2024	29 Feb 2024	
Machine Hours		1204	732	
Oil Hours		0	0	
Oil Changed		Changed	Changed	
Sample Status		NORMAL	ATTENTION	
VOLVO				
OIL CONDI	TION			
Visc @ 100°C	cSt	12.3	10.8	
Base Number (BN)		9.0	5.3	
Oxidation (PA)	%	77	57	
Chidatien (171)	70	• •	37	
VOLVO				
CONTAMIN	NATION			
Water	%	NEG	NEG	
Soot %	%	■ 0.3	□0.4	
Nitration (PA)	%	61	78	
Sulfation (PA)	%	63	57	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	■ 0.7	
Silicon	ppm	■8	2 6	
Sodium	ppm	■<1	4	
Potassium	ppm	1	0	
WEAR ME	7117			
_	IVF2		<u>-</u>	
Iron	ppm	10	2 2	
Copper	ppm	■ 98	■230	
Lead	ppm		2	
Tin	ppm	2	4	
Aluminum	ppm	■ 2	3	
Chromium	ppm	■ <1	1	
Molybdenum	ppm	47	■80	
Nickel	ppm	2	9	
Titanium	ppm	<1	0	
Silver	ppm	■ 0	0	
Manganese	ppm	■ <1	1	
Vanadium	ppm	0	0	
ADDITIVE	5			
Calcium	ppm	1693	□2197	
Magnesium	ppm	445	23	
Zinc	ppm	1104	■ 1074	
Phosphorus	ppm	898	□956	
Barium	ppm	0	0	
Darium	Phili			



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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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot:VOLVO0090Unique No:11073567Signed:Sean FeltonReport Date:13 Jun 2024

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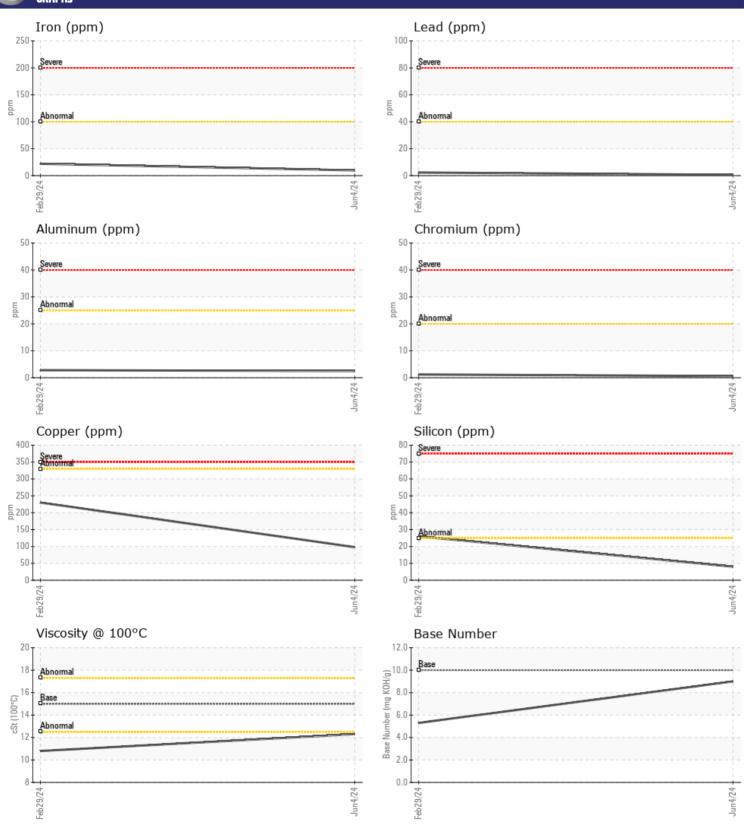
Boron







GRAPH





CONSTRUCTION EQUIPMENTVOLVO A45G 752059 - TRANSMISSION (AUTO)



Sample No: VCP449977

Oil Type: VOLVO AUTOMATIC TRANSMISSION FLUID AT102

Job No:

SAMPLE	INFORMATION			
Sample Number		VCP449977	VCP445618	
Sample Date		04 Jun 2024	29 Feb 2024	
Machine Hours		1204	732	
Oil Hours		0	0	
Oil Changed		Not Changd	Not Changd	
Sample Status		ABNORMAL	NORMAL	
Sample Status		ADNORWAL	NORIVIAL	
VOLVO				
OIL CON	DITION			
Visc @ 40°C	cSt	■28.4	29.6	
VOLVO	IIIA TION			
_	IINATION			
Water	%	NEG	NEG	
Silicon	ppm	11	1 2	
Sodium	ppm	5	4	
Potassium	ppm	5	- <1	
WEAR M	IFTAI S			
_				
Iron	ppm	■28	25	
Copper	ppm	23	1 9	
Lead	ppm	4	0	
Tin	ppm	4	2	
Aluminum	ppm	■14	1 2	
Chromium	ppm	■<1	0	
Molybdenum	ppm	2	0	
Nickel	ppm	2	1	
Titanium	ppm	0	0	
Silver	ppm	■0	0	
Manganese	ppm	■4	3	
Vanadium	ppm	0	0	
ADDITIV	ES			
Calcium	_	□ 55		
Magnesium	ppm	■ <1	0	
Zinc	ppm	■ 0	<u></u> 5	
	ppm	139	■ 185	
Phosphorus	ppm	_		
Barium	ppm	■ 0	0	
Boron	ppm	■59	■81	



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

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Diagnosis

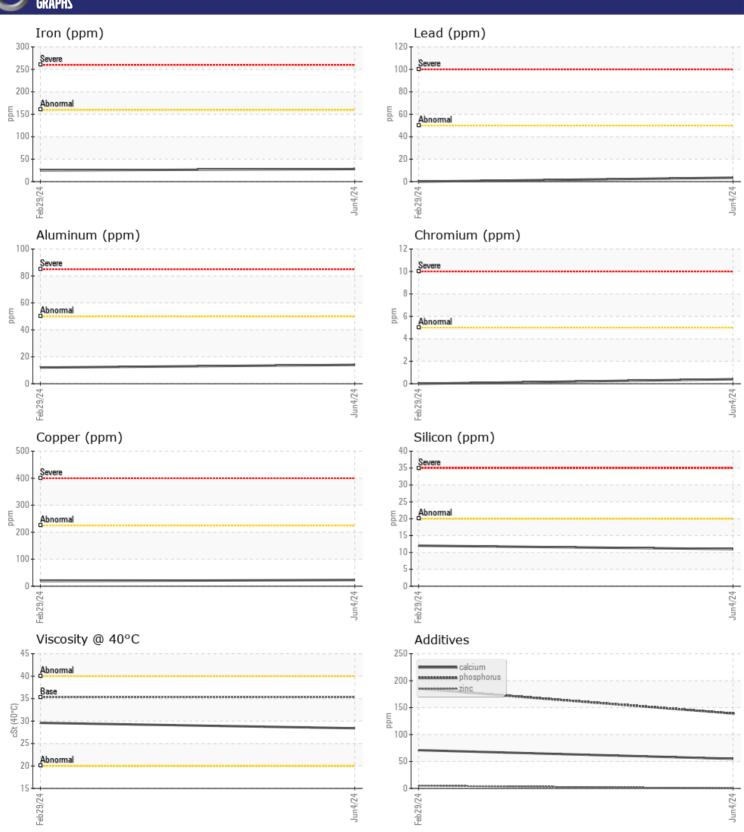
The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of visible silt present in the sample. The condition of the fluid is acceptable for the time in service.

Depot:VOLVO0090Unique No:11074450Signed:Don BaldridgeReport Date:13 Jun 2024











CONSTRUCTION EQUIPMENT VOLVO A45G 752059 - WET DISC BRAKE



Sample No: VCP449975

Oil Type: VOLVO WET BRAKE TRANSAXLE OIL

Job No:

VOLVO CAMPIE	INFORMATION	1		
Sample Number	. IIII OIII-III IOI	VCP449975	VCP445617	
•		04 Jun 2024	29 Feb 2024	
Sample Date Machine Hours		1204		
		0	732	
Oil Hours			-	
Oil Changed		Not Changd	Not Changd	
Sample Status		ABNORMAL	NORMAL	
VOLVO				
OIL CON	DITION			
Visc @ 40°C	cSt	44.0	47.2	
VOLVO	411.5.7.6.1			
CONTAN	MINATION			
Water	%	NEG	NEG	
Silicon	ppm	14	1 4	
Sodium	ppm	5	4	
Potassium	ppm	6	- <1	
WEAR N	AETAL C			
_	JE I WEZ			
ron	ppm	2 1	□18	
Copper	ppm	<u> </u>	7 7	
Lead	ppm	4	0	
Tin	ppm	2	0	
Aluminum	ppm	1	□0	
Chromium	ppm	■ <1	0	
Molybdenum	ppm	2	0	
Nickel	ppm	4	2	
Γitanium	ppm	0	0	
Silver	ppm	0	0	
Manganese	ppm	1	- <1	
Vanadium	ppm	0	0	
ADDITIV	/FS			
_		-2557	— 2526	
Calcium	ppm	3557	3536	
Magnesium	ppm	□ 7	7	
Zinc	ppm	1486	□ 1469	
Phosphorus	ppm	1241	1261	
Barium	ppm	0	0	
Boron	ppm	128	117	



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Diagnosis

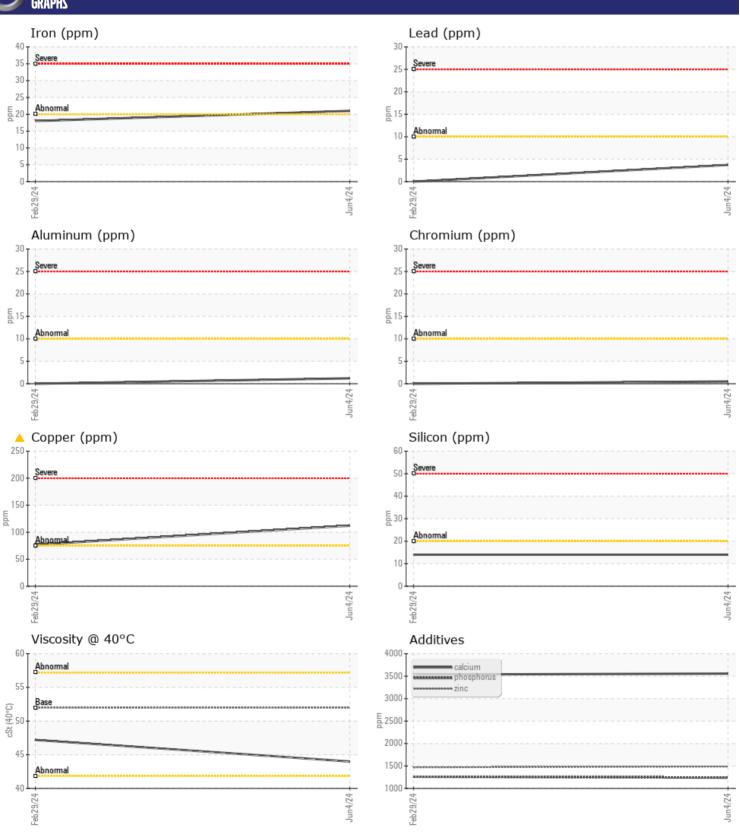
No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot:VOLVO0090Unique No:11074379Signed:Don BaldridgeReport Date:13 Jun 2024











CONSTRUCTION EQUIPMENT VOLVO A45G 752059 - HYDRAULIC SYSTEM



Sample No: VCP449976

Oil Type: VOLVO SUPER HYDRAULIC OIL 46

Job No:

VOLVO				
SAMPLE II	NFORMATION			
Sample Number		VCP449976	VCP445948	
Sample Date		04 Jun 2024	29 Feb 2024	
Machine Hours		1204	732	
Oil Hours		0	0	
Oil Changed		Not Changd	Not Changd	
Sample Status		NORMAL	ABNORMAL	
OIL CONDI	TION			
		- 42.6		
Visc @ 40°C	cSt	43.6	43.6	
Acid Number (AN)	mg KOH/g	■ 0.39	■ 0.47	
VOLVO				
CONTAMII	NATION			
Water	%	NEG	NEG	
Particles >4µm		1622	16249	
Particles >6µm		■ 513	6029	
Particles >14µm		■28	△ 376	
ISO 4406:1999 (c)		18/16/12	21/20/16	
Silicon	ppm	1 2	<1	
Sodium	ppm	1	<u> </u>	
Potassium	ppm	■0	0	
VOLVO	TALC			
WEAR ME	IAL2			
Iron	ppm	■4	2	
Copper	ppm	■ 2	1	
Lead	ppm	■0	0	
Tin	ppm	■0	= <1	
Aluminum	ppm	0	0	
Chromium	ppm	0	0	
Molybdenum	ppm	0	0	
Nickel	ppm	0	0	
Titanium	ppm	0	0	
Silver	ppm	0	0	
Manganese	ppm	0	0	
Vanadium	ppm	0	0	
VOLVO				
ADDITIVE				
Calcium	ppm	77	1 78	
Magnesium	ppm	■0	0	
Zinc	ppm	404	403	
Phosphorus	ppm	■319	323	
Barium	ppm	■0	0	
Boron	ppm	■0	0	



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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:
 VOLVO0090

 Unique No:
 11073889

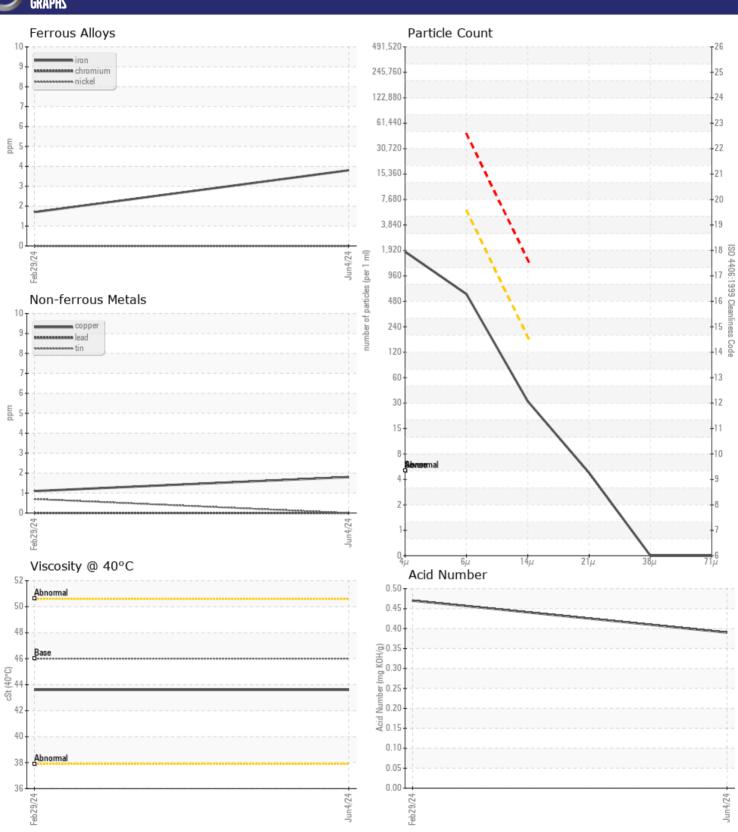
 Signed:
 Wes Davis

 Report Date:
 13 Jun 2024











CONSTRUCTION EQUIPMENT VOLVO A45G 752059 - FRONT AXLE



Sample No: VCP449996

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

Job No:

ZAMPI F	INFORMATIO	N		
	IIII OIIIIIA I IOI			
Sample Number		VCP449996	 	
Sample Date		04 Jun 2024	 	
Machine Hours		1204	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		ATTENTION	 	
VOLVO				
OIL CON	DITION			
Visc @ 40°C	cSt	52.7	 	
VOLVO				
LUNTAN	IINATION			
Water	%	NEG	 	
Silicon	ppm	4	 	
Sodium	ppm	■3	 	
Potassium	ppm	■ 5	 	
WEAR M	IFTAI S			
Iron		□ 166	 	
	ppm	4	 	
Copper	ppm		 	
Lead	ppm	3		
Tin	ppm	1		
Aluminum	ppm	- <1	 	
Chromium	ppm	2	 	
Molybdenum	ppm	7	 	
Nickel	ppm	- <1	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	7	 	
Vanadium	ppm	0	 	
VOLVO			 	
ADDITIV	ES			
Calcium	ppm	131	 	
Magnesium	ppm	1	 	
Zinc	ppm	■39	 	
Phosphorus	ppm	2117	 	
Barium	ppm	0	 	
Boron	ppm	■ 237	 	
DOTOTT	ррпп			



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Diagnosis

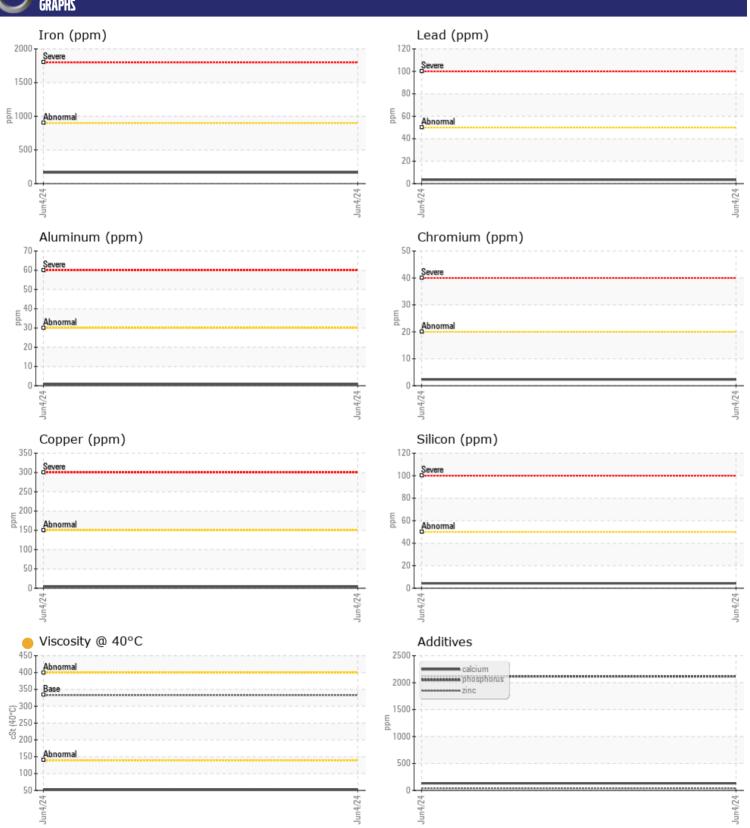
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Confirm oil type.

Depot:VOLVO0090Unique No:11074377Signed:Don BaldridgeReport Date:13 Jun 2024











CONSTRUCTION EQUIPMENT VOLVO A45G 752059 - BOGIE/CENTER AXLE



Sample No: VCP447746

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

Job No:

VOLVO CAMPIF	INFORMATIO	N		
	INI UNINA HU		 	
Sample Number		VCP447746	 	
Sample Date		04 Jun 2024	 	
Machine Hours		1204	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		ATTENTION	 	
VOLVO				
OIL CON	DITION			
Visc @ 40°C	cSt	52.5	 	
VOLVO				
VOLVO	INATION			
	INATION			
Water	%	NEG	 	
Silicon	ppm	■5	 	
Sodium	ppm	■3	 	
Potassium	ppm	■5	 	
WEAR M	FTALS			
Iron		160	 	
Copper	ppm	4	 	
Lead	ppm	4	 	
Tin	ppm	2	 	
Aluminum	ppm	■ <1	 	
Chromium	ppm	<u> </u>	 	
Molybdenum	ppm	7	 	
Nickel	ppm		 	
Titanium	ppm	□ <1 0	 	
Silver	ppm	0	 	
	ppm		 	
Manganese	ppm	□ 7 0	 	
Vanadium	ppm	U	 	
VOLVO				
ADDITIV	ES			
Calcium	ppm	137	 	
Magnesium	ppm	2	 	
Zinc	ppm	45	 	
Phosphorus	ppm	■2080	 	
Barium	ppm	0	 	
Boron	ppm	229	 	
	p.p			



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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. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Confirm oil type.

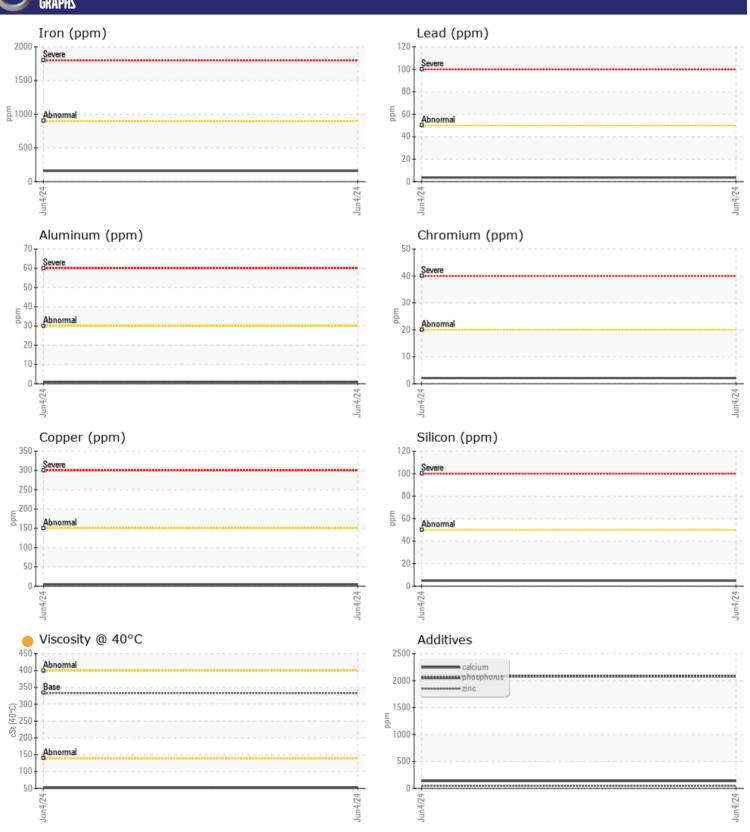
Depot:VOLVO0090Unique No:11074374Signed:Don BaldridgeReport Date:13 Jun 2024







GRAPH





CONSTRUCTION EQUIPMENT VOLVO A45G 752059 - REAR AXLE



Sample No: VCP436687

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

Job No:

SAMPLI	E INFORMATIO	N		
Sample Number		VCP436687	 	
Sample Date		04 Jun 2024	 	
Machine Hours		1204	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		ATTENTION	 	
OIL CON	INITION			
_	_			
Visc @ 40°C	cSt	52.3	 	
VOLVO				
CONTAI	MINATION			
Water	%	NEG	 	
Silicon	ppm	4	 	
Sodium	ppm	3	 	
Potassium	ppm	6	 	
WEAR	METALS			
_		-404		
Iron	ppm	121	 	
Copper	ppm	4	 	
Lead Tin	ppm	3	 	
Aluminum	ppm	□1 □<1	 	
Chromium	ppm	2	 	
Molybdenum	ppm	9	 	
Nickel	ppm	■ <1	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	10	 	
Vanadium	ppm	0	 	
	PPIII	-		
VOLVO	VEC			
ADDITIV	NE7			
Calcium	ppm	145	 	
Magnesium	ppm	2	 	
Zinc	ppm	43	 	
Phosphorus	ppm	2149	 	
Barium	ppm	0	 	
Boron	ppm	273	 	



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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. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Confirm oil type.

Depot:VOLVO0090Unique No:11074378Signed:Don BaldridgeReport Date:13 Jun 2024











CONSTRUCTION EQUIPMENT VOLVO A45G 752059 - DROP BOX



Sample No: VCP449984

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

Job No:

SAMPLE	INFORMATIO	N		
Sample Number	_	VCP449984	 	
Sample Date		04 Jun 2024	 	
Machine Hours		1204	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		ATTENTION	 	
VOLVO	DITION			
OIL CON				<u> </u>
Visc @ 40°C	cSt	49.9	 	
VOLVO				
CONTAN	MINATION			
Water	%	NEG	 	
Silicon	ppm	14EG		
Sodium	ppm	8	 	
Potassium	ppm	5	 	
Totassium	ррш			
VOLVO				
WEAR N	METALS			
Iron	ppm	■ 321	 	
Copper	ppm	18	 	
Lead	ppm	■ 3	 	
Tin	ppm	2	 	
Aluminum	ppm	-<1	 	
Chromium	ppm	2	 	
Molybdenum	ppm	■8	 	
Nickel	ppm	2	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	■8	 	
Vanadium	ppm	0	 	
ADDITIV	/FS			
_	-		 	
Calcium	ppm	64		
Magnesium	ppm	2	 	
Zinc	ppm	85	 	
Phosphorus	ppm	1883	 	
Barium	ppm	0		
Boron	ppm	9 4	 	



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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. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Confirm oil type.

Depot:VOLVO0090Unique No:11074371Signed:Don BaldridgeReport Date:13 Jun 2024







GRAPHS

