

CONSTRUCTION EQUIPMENT VOLVO A45G 752119 - DIESEL ENGINE



Sample No: VCP451444

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

Job No:

VOLVO				
SAMPLE IN	NFORMATION			
Sample Number		VCP451444	VCP441821	
Sample Date		01 Jun 2024	30 Jan 2024	
Machine Hours		1566	767	
Oil Hours		0	0	
Oil Changed		Changed	Changed	
_		NORMAL	ATTENTION	
Sample Status		NORIVIAL	ATTENTION	
VOLVO				
OIL CONDI	TION			
Visc @ 100°C	cSt	12.5	11.1	
Base Number (BN)	mg KOH/g	7.8	5.3	
Oxidation (PA)	%	77	60	
VOLVO	IATION			
CONTAMIN	MATIUN			
Water	%	NEG	NEG	
Soot %	%	0.4	■ 0.4	
Nitration (PA)	%	68	81	
Sulfation (PA)	%	61	58	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	■ 0.4	
Silicon	ppm	■ 9	2 5	
Sodium	ppm	■ 3	3	
Potassium	ppm	2	1	
WEAR ME	ΤΔΙ ς			
_		=44		
Iron	ppm	11	2 0	
Copper	ppm	100	□ 264	
Lead	ppm	■ <1	3	
Tin	ppm	2	5	
Aluminum	ppm	2	2	
Chromium	ppm	■ <1	<1	
Molybdenum	ppm	47	■84	
Nickel	ppm	2	2	
Titanium	ppm	0	0	
Silver	ppm	0	0	
Manganese	ppm	1	1	
Vanadium	ppm	0	0	
VOLVO				
ADDITIVE:				
Calcium	ppm	1757	□2135	
Magnesium	ppm	444	88	
Zinc		1112	■ 1204	
Phosphorus	ppm	968	1204	
Barium	ppm	<u> </u>	0	
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ALTA EQUIPMENT COMPANY

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. 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:
 VOLVO0090

 Unique No:
 11061913

 Signed:
 Wes Davis

 Report Date:
 05 Jun 2024

ppm

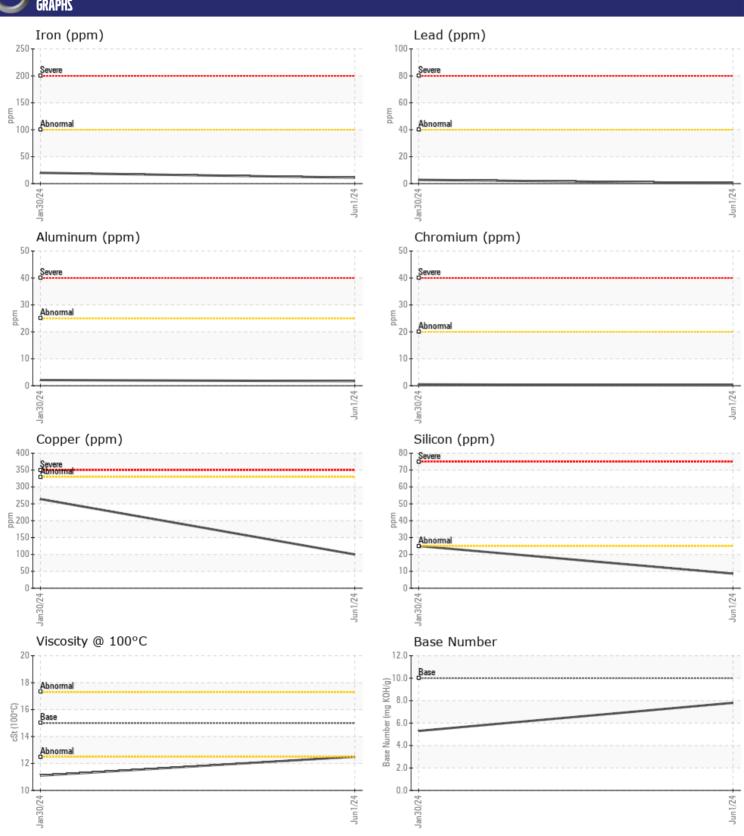
24

Boron











CONSTRUCTION EQUIPMENTVOLVO A45G 752119 - TRANSMISSION (AUTO)



Sample No: VCP438605

Oil Type: VOLVO AUTOMATIC TRANSMISSION FLUID AT102

Job No:

SAMPLE	INFORMATION			
Sample Number		VCP438605	 	
Sample Date		01 Jun 2024	 	
Machine Hours		1566	 	
Oil Hours		0	 	
Oil Changed		Not Changd	 	
Sample Status		ABNORMAL	 	
Sample Status		7151101111712		
VOLVO	NITION			
OIL CONE	JITION			
Visc @ 40°C	cSt	■28.7	 	
CONTAM	INATION			
_		NEC		
Water	%	NEG	 	
Silicon	ppm	14	 	
Sodium	ppm	6	 	
Potassium	ppm	■ 4	 	
VOLVO				
WEAR M	ETALS			
Iron	ppm	□ 36	 	
Copper	ppm	■ 50	 	
Lead	ppm	0	 	
Tin	ppm	6	 	
Aluminum	ppm	1 9	 	
Chromium	ppm	□0	 	
Molybdenum	ppm	■0	 	
Nickel	ppm	6	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	5	 	
Vanadium	ppm	0	 	
VOLVO	FF			
ADDITIV	52			
Calcium	ppm	7 6	 	
Magnesium	ppm	■0	 	
Zinc	ppm	■ 7	 	
Phosphorus	ppm	210	 	
Barium	ppm	■ <1	 	
Boron	ppm	■86	 	



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Diagnosis

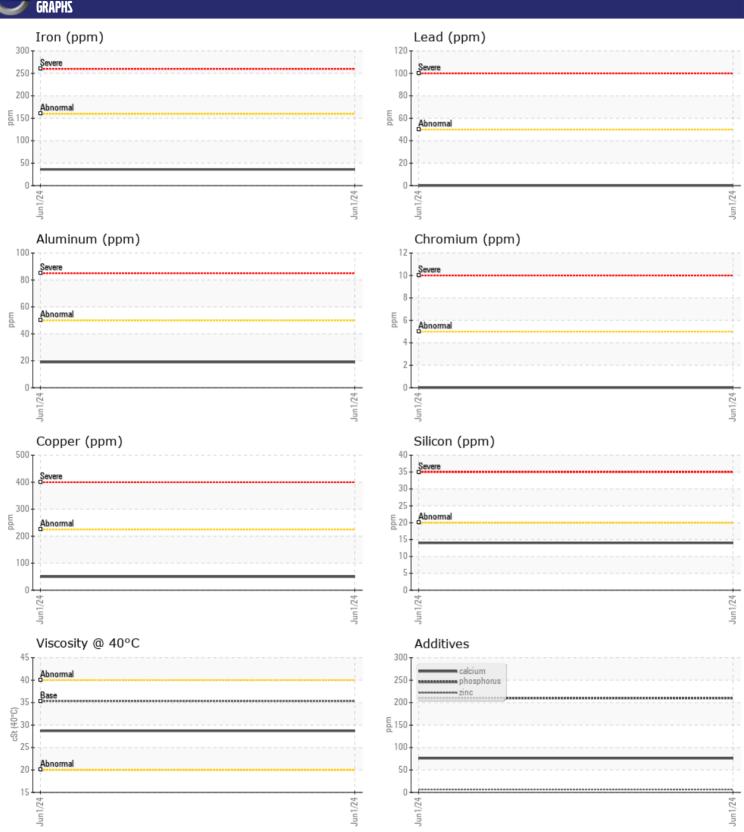
The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. Moderate concentration of visible dirt/debris present in the fluid. The condition of the fluid is acceptable for the time in service.

Depot:VOLVO0090Unique No:11062820Signed:Don BaldridgeReport Date:07 Jun 2024











CONSTRUCTION EQUIPMENT VOLVO A45G 752119 - WET DISC BRAKE



Sample No: VCP454786

Oil Type: VOLVO WET BRAKE TRANSAXLE OIL

Job No:

SAMPLE	INFORMATIO	N		
Sample Number		VCP454786	 	
Sample Date		01 Jun 2024	 	
Machine Hours		1566	 	
Oil Hours		0	 	
Oil Changed		Not Changd	 	
Sample Status		ABNORMAL	 	
Sample Status		715110111111111		
VOLVO	DITION			
OIL CON	JITION			
Visc @ 40°C	cSt	43.7	 	
CUNTAM	IINATION			
_		NEC		
Water	%	NEG	 	
Silicon	ppm	15	 	
Sodium	ppm	4	 	
Potassium	ppm	■ 3	 	
VOLVO				
WEAR M	ETALS			
Iron	ppm	2 4	 	
Copper	ppm	<u>▲</u> 103	 	
Lead	ppm	0	 	
Tin	ppm	■<1	 	
Aluminum	ppm	0	 	
Chromium	ppm	■<1	 	
Molybdenum	ppm	0	 	
Nickel	ppm	■3	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	2	 	
Vanadium	ppm	0	 	
	P			
VOLVO	re			
ADDITIV	F2			
Calcium	ppm	■3903	 	
Magnesium	ppm	■8	 	
Zinc	ppm	■1583	 	
Phosphorus	ppm	1454	 	
Barium	ppm	■<1	 	
Boron	ppm	166	 	



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Diagnosis

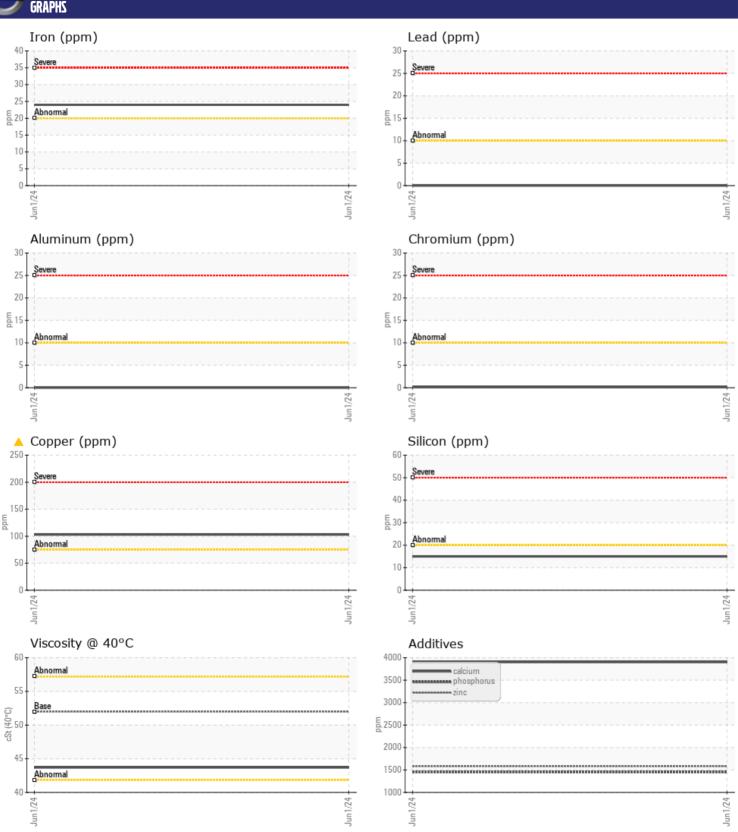
No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot:VOLVO0090Unique No:11062707Signed:Don BaldridgeReport Date:07 Jun 2024











CONSTRUCTION EQUIPMENT VOLVO A45G 752119 - HYDRAULIC SYSTEM



Sample No: VCP438722

Oil Type: VOLVO SUPER HYDRAULIC OIL 46

Job No:

VOLVO				
SAMPLE II	NFORMATION			
Sample Number	-	VCP438722	 	
Sample Date		01 Jun 2024	 	
Machine Hours		1566	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CONDI	TION			
Visc @ 40°C	cSt	□ 44.4	 	
Acid Number (AN)		■ 0.46	 	
	<i>y</i> , , <i>y</i>			
VOLVO	IATION			
CONTAMIN				
Water	%	NEG	 	
Particles >4µm		1461	 	
Particles >6µm		427	 	
Particles > 14µm		■ 29	 	
ISO 4406:1999 (c)		18/16/12	 	
Silicon	ppm	2	 	
Sodium	ppm	1	 	
Potassium	ppm	■ <1	 	
VOLVO				
WEAR ME	TALS			
Iron	ppm	1	 	
Copper	ppm	<u> </u>	 	
Lead	ppm	<1	 	
Tin	ppm	<1	 	
Aluminum	ppm	0	 	
Chromium	ppm	■ 0	 	
Molybdenum	ppm	0	 	
Nickel	ppm	■ 0	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	■<1	 	
Vanadium	ppm	0	 	
ADDITIVE:	7			
Calcium	ppm	52	 	
Magnesium	ppm	0	 	
Zinc	ppm	448	 	
Phosphorus	ppm	■374	 	
Barium	ppm	■ <1	 	
Boron	ppm	0	 	
DOTOIT	PPIII			



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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.

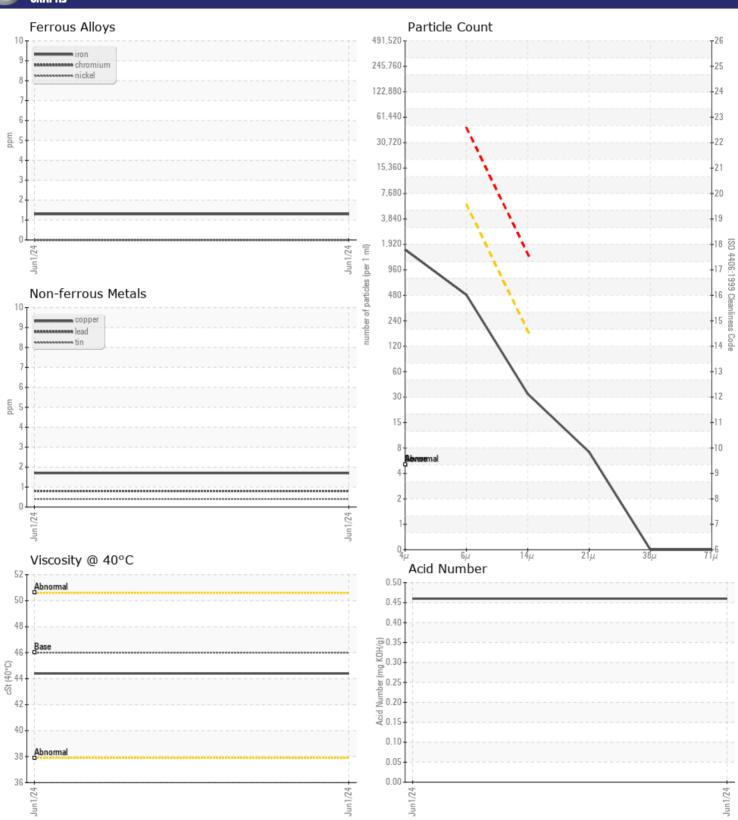
Depot:VOLVO0090Unique No:11062170Signed:Wes DavisReport Date:06 Jun 2024







GRAPHS





CONSTRUCTION EQUIPMENT VOLVO A45G 752119 - FRONT AXLE



Sample No: VCP451441

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

Job No:

SAMPLE	INFORMATIO	N		
Sample Number		VCP451441	 	
Sample Date		01 Jun 2024	 	
Machine Hours		1566	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		ATTENTION	 	
		ATTENTION		
VOLVO				
OIL CON	DITION			
Visc @ 40°C	cSt	52.7	 	
VOLVO	IINATION			
_				
Water	%	NEG	 	
Silicon	ppm	5	 	
Sodium	ppm	2	 	
Potassium	ppm	2	 	
VOLVO				
WEAR M	ETALS			
Iron		□ 356	 	
Copper	ppm	2	 	
Lead	ppm	0	 	
Tin	ppm	■ <1	 	
Aluminum	ppm	0	 	
Chromium	ppm	4		
Molybdenum	ppm	11	 	
Nickel	ppm	_		
Titanium	ppm	0	 	
Silver	ppm	0		
	ppm	□ 12	 	
Manganese	ppm	_		
Vanadium	ppm	0	 	
VOLVO				
ADDITIV	ES			
Calcium	ppm	147	 	
Magnesium	ppm	1	 	
Zinc	ppm	6 1	 	
Phosphorus	ppm	2691	 	
Barium	ppm	<u>1</u> 1	 	
Boron	ppm	312	 	
201011	PPIII	J.2		



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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. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Depot:VOLVO0090Unique No:11062705Signed:Don BaldridgeReport Date:07 Jun 2024











CONSTRUCTION EQUIPMENT VOLVO A45G 752119 - BOGIE/CENTER AXLE



Sample No: VCP451445

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

Job No:

SAMPLE	INFORMATION	N		
Sample Number		VCP451445	 	
		01 Jun 2024	 	
Sample Date Machine Hours		1566	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		ATTENTION	 	
VOLVO				
OIL CON	DITION			
Visc @ 40°C	cSt	52.5	 	
		02.0		
VOLVO				
CONTAN	MINATION			
Water	%	NEG	 	
Silicon	ppm	■ 5	 	
Sodium	ppm	2	 	
Potassium	ppm	2	 	
WEAR N	AETAL C			
_	IE I ML2			
Iron	ppm	■355	 	
Copper	ppm	■1	 	
Lead	ppm	■0	 	
Tin	ppm	■ <1	 	
Aluminum	ppm	■0	 	
Chromium	ppm	■ 4	 	
Molybdenum	ppm	11	 	
Nickel	ppm	■<1	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	12	 	
Vanadium	ppm	0	 	
ADDITIV	IFS			
_		-445		
Calcium 	ppm	113	 	
Magnesium 	ppm	- <1	 	
Zinc	ppm	51	 	
Phosphorus	ppm	2592	 	
Barium	ppm	1	 	
Boron	ppm	317	 	



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Diagnosis

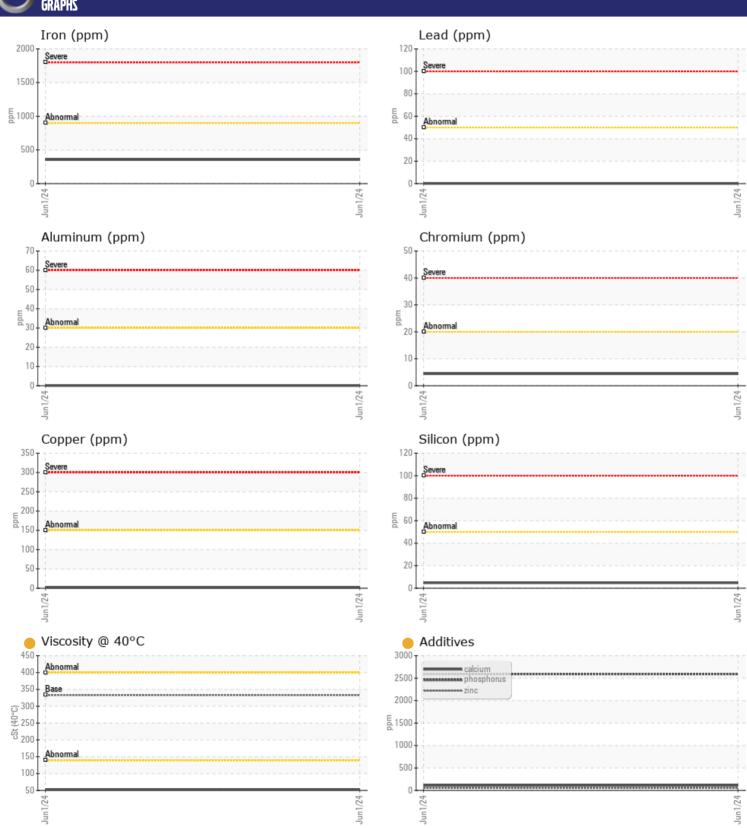
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Depot:VOLVO0090Unique No:11062706Signed:Don BaldridgeReport Date:07 Jun 2024











CONSTRUCTION EQUIPMENT VOLVO A45G 752119 - REAR AXLE



Sample No: VCP451446

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

Job No:

SAMPLI	E INFORMATIO	N		
Sample Number		VCP451446	 	
Sample Date		01 Jun 2024	 	
Machine Hours		1566	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		ATTENTION	 	
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
VOLVO	IDITION			
OIL CON	אטווועו			
Visc @ 40°C	cSt	52.5	 	
CONTAI	MINATION			
Water	%	NEG	 	
Silicon		INEG	 	
Sodium	ppm	2	 	
Potassium	ppm	6	 	
FOLASSIUIII	ppm	 0	 	
VOLVO				
WEAR I	METALS			
Iron	ppm	■309	 	
Copper	ppm	2	 	
Lead	ppm	0	 	
Tin	ppm	-<1	 	
Aluminum	ppm	■<1	 	
Chromium	ppm	4	 	
Molybdenum	ppm	10	 	
Nickel	ppm	■<1	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	13	 	
Vanadium	ppm	0	 	
ADDITIV	VFC			
_		-422		
Calcium	ppm	120	 	
Magnesium	ppm	3	 	
Zinc	ppm	67	 	
Phosphorus	ppm	2675	 	
Barium	ppm	2	 	
Boron	ppm	330	 	



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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. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Depot:VOLVO0090Unique No:11062703Signed:Don BaldridgeReport Date:07 Jun 2024











CONSTRUCTION EQUIPMENT VOLVO A45G 752119 - DROP BOX



Sample No: VCP438727

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

Job No:

SAMPLE	INFORMATIO	N		
Sample Number	_	VCP438727	 	
Sample Date		01 Jun 2024	 	
Machine Hours		1566	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		ABNORMAL	 	
		7.2.101		
VOLVO	DITION			
OIL CONE	JIIIUN			
Visc @ 40°C	cSt	49.4	 	
CONTAM	IINΔTION			
Water	%	NEG	 	
Silicon	ppm	17	 	
Sodium	ppm	11	 	
Potassium	ppm	■ 3	 	
VOLVO				
WEAR M	ETALS			
Iron	ppm	100	 	
Copper	ppm	12	 	
Lead	ppm	■0	 	
Tin	ppm	■<1	 	
Aluminum	ppm	■ 0	 	
Chromium	ppm	■<1	 	
Molybdenum	ppm	7	 	
Nickel	ppm	■0	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	■ 3	 	
Vanadium	ppm	0	 	
VOLVO	IFC			
ADDITIV	F7			
Calcium	ppm	43	 	
Magnesium	ppm	■1	 	
Zinc	ppm	78	 	
Phosphorus	ppm	2540	 	
Barium	ppm		 	
Boron	ppm	152	 	



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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. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Depot: VOLVO0090
Unique No: 11062709
Signed: Don Baldridge
Report Date: 07 Jun 2024







