

CONSTRUCTION EQUIPMENT 535390 VOLVO L 110H 631617 - DIESEL ENGINE



Sample No: VCP444386

Oil Type: DIESEL ENGINE OIL SAE 40

Job No: 535390

VOLVO				
SAMPLE IN	NFORMATION			
Sample Number	-	VCP444386	 	
Sample Date		05 Jun 2024	 	
Machine Hours		8561	 	
Oil Hours		0	 	
Oil Changed		N/A	 	
Sample Status		ABNORMAL	 	
OIT CONDI.	TION			
Visc @ 100°C	cSt	13.1	 	
Base Number (BN)	mg KOH/g	■8.0	 	
Oxidation (PA)	%	77	 	
CONTAMIN	JATION			
_	_	_		
Water	%	NEG	 	
Soot %	%	■1	 	
Nitration (PA)	%	97	 	
Sulfation (PA)	%	65	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	18	 	
Sodium	ppm	■ 5	 	
Potassium	ppm	5	 	
VOLVO				
WEAR ME	TALS			
Iron	ppm	50	 	
Copper	ppm	<u> </u>	 	
Lead	ppm	2	 	
Tin	ppm	2	 	
Aluminum	ppm	<u> </u>	 	
Chromium	ppm	■3	 	
Molybdenum	ppm	64	 	
Nickel	ppm	■ <1	 	
Titanium	ppm	<u> </u>	 	
Silver	ppm	■0	 	
Manganese	ppm	■ <1	 	
Vanadium	ppm	<1	 	
ADDITIVES				
Calcium	ppm	1243	 	
Magnesium	ppm	868	 	
Zinc	ppm	1345	 	
Phosphorus		■ 1343 ■ 1119		
rnosphorus	ppm	<u> </u>		



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Contact: KENNY HANEY
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F: (813)630-2233

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The aluminum level is 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:VOLVO0093Unique No:11071680Signed:Sean FeltonReport Date:12 Jun 2024

ppm

ppm

0

25

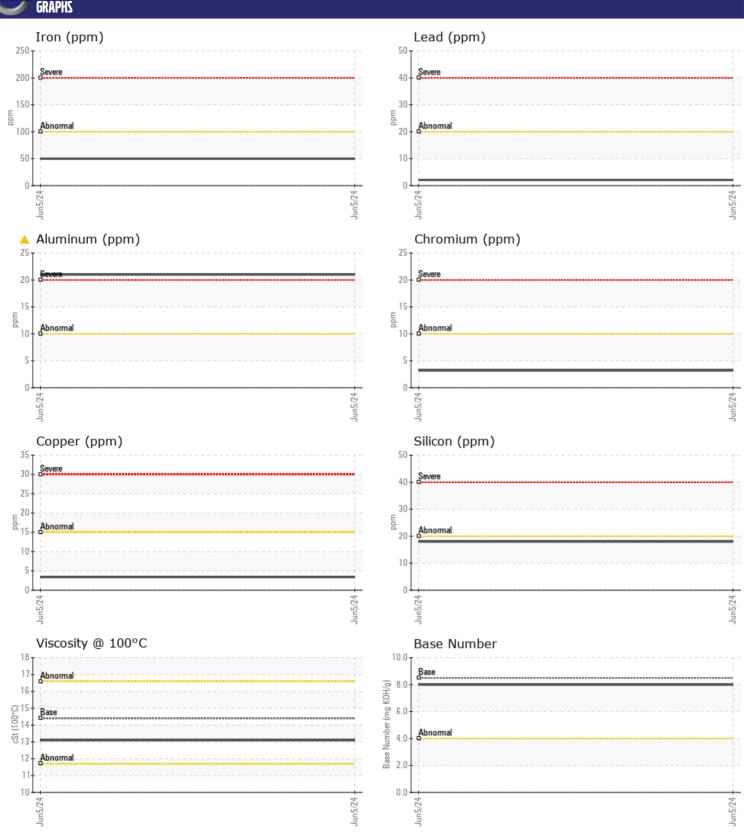
Barium

Boron







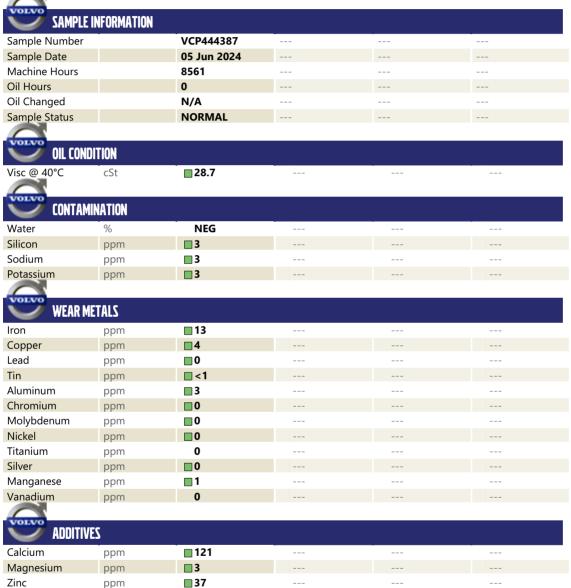




535390 HILLSBOROUGH VOLVO L110H 631617 - TRANSMISSION (AL

Sample No: VCP444387
Oil Type: DEXRON III

Job No: 535390 HILLSBOROUGH





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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 fluid. The condition of the fluid is acceptable for the time in service.

Depot:VOLVO0093Unique No:11072674Signed:Doug BogartReport Date:12 Jun 2024

Contact/Location: KENNY HANEY - VOLVO0093

216

|| <1

107

Phosphorus

Barium

Boron

ppm

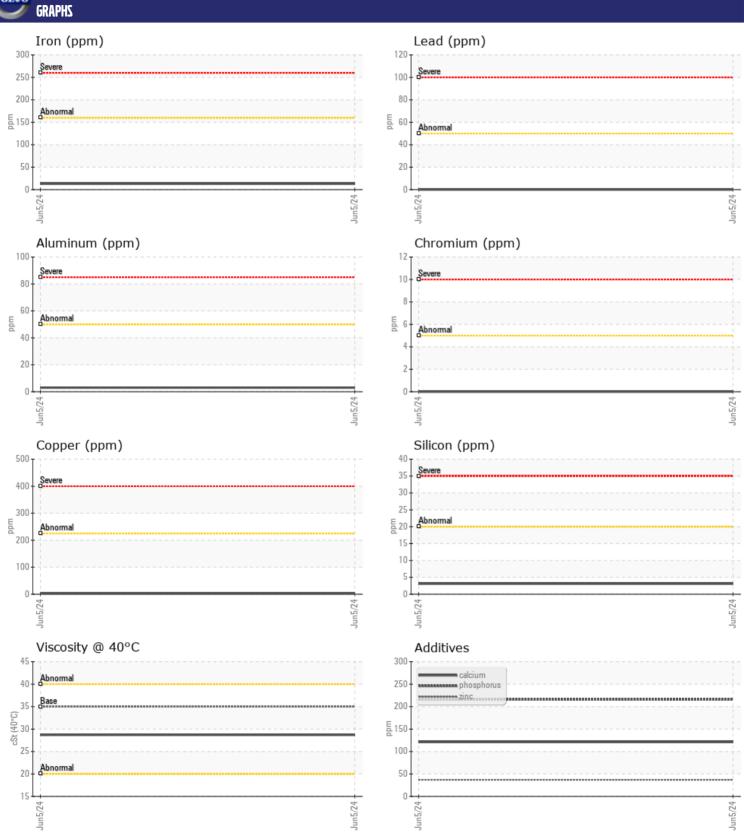
ppm

ppm











CONSTRUCTION EQUIPMENT 535390 VOLVO L110H 631617 - HYDRAULIC SYSTEM



Sample No: VCP444388
Oil Type: {unknown}
Job No: 535390

SAMPLE	INFORMATION			
Sample Number	-	VCP444388	 	
Sample Date		05 Jun 2024	 	
Machine Hours		8561	 	
Oil Hours		0	 	
Oil Changed		N/A	 	
Sample Status		SEVERE	 	
OIL COND	NITION			
Visc @ 40°C	cSt	45.7	 	
Acid Number (AN) mg KOH/g	■ 0.50	 	
VOLVO				
CONTAM	INATION			
Water	%	NEG	 	
Particles >4µm	70	44870	 	
Particles > 4µm		▲ 12851	 	
Particles > 14µm		▲ 1052	 	
ISO 4406:1999 (c)		23/21/17		
Silicon		<u>23/21/17</u>	 	
Sodium	ppm	3	 	
Potassium	ppm	3	 	
rotassium	ррш			
VOLVO				
WEAR M	ETALS			
Iron	ppm	■ 3	 	
Copper	ppm	■<1	 	
Lead	ppm	1	 	
Tin	ppm	■<1	 	
Aluminum	ppm	■<1	 	
Chromium	ppm	■<1	 	
Molybdenum	ppm	0	 	
Nickel	ppm	■ 0	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	<1	 	
Vanadium	ppm	0	 	
ADDITIV	FS E			
Calcium		650		
	ppm	650 10	 	
Magnesium Zinc	ppm	618	 	
Phosphorus	ppm	511	 	
	ppm			
Barium	ppm	<1	 	



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Diagnosis

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. Please specify the brand, type, and viscosity of the oil on your next sample.All component wear rates are normal. There is a high amount of particulates (2 to 100 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Depot:VOLVO0093Unique No:11071985Signed:Wes DavisReport Date:12 Jun 2024

ppm

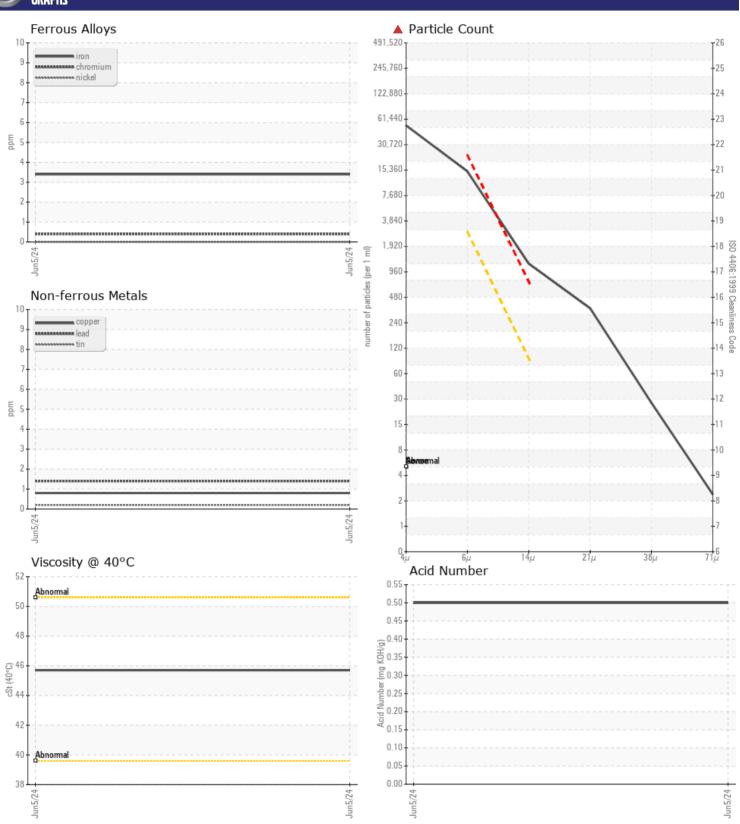
Boron







GRAPHS





CONSTRUCTION EQUIPMENT 535390 VOLVO L110H 631617 - FRONT AXLE



Sample No: VCP443587

Oil Type: TRANSAXLE OIL SAE 75W80

Job No: 535390

CAMDIE	INFORMATION			
	. INFUNIATION			
Sample Number		VCP443587	 	
Sample Date		05 Jun 2024	 	
Machine Hours		8561	 	
Oil Hours		0	 	
Oil Changed		N/A	 	
Sample Status		NORMAL	 	
VOLVO				
OIL CON	DITION			
		= 41.6		
Visc @ 40°C	cSt	41.6	 	
VOLVO				
CONTAN	MINATION			
Water	%	NEG	 	
Silicon	ppm	■10	 	
Sodium		2	 	
	ppm	1	 	
Potassium	ppm		 	
VOLVO				
WEAR N	METALS			
Iron	ppm	178	 	
Copper	ppm	■<1	 	
Lead	ppm	0	 	
Tin	ppm	0	 	
Aluminum	ppm	■2	 	
Chromium	ppm	2	 	
Molybdenum	ppm	2	 	
Nickel	ppm	■ <1	 	
Titanium	ppm	<1	 	
Silver		0	 	
Manganese	ppm	™ 3	 	
	ppm	_		
Vanadium	ppm	<1	 	
VOLVO				
ADDITIV	/ES			
Calcium	ppm	3751	 	
Magnesium	ppm	8	 	
Zinc	ppm	■1551	 	
Phosphorus	ppm	1365	 	
Barium	ppm	■ 0	 	
Boron		141	 	
DOIOII	ppm	141	 	



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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:VOLVO0093Unique No:11072514Signed:Don BaldridgeReport Date:12 Jun 2024











CONSTRUCTION EQUIPMENT 53539 VOLVO L110H 631617 - REAR AXLE



Sample No: VCP444383
Oil Type: {unknown}
Job No: 53539

SAMPLE	INFORMATION			
Sample Number		VCP444383	 	
Sample Date		05 Jun 2024	 	
Machine Hours		8561	 	
Oil Hours		0	 	
Oil Changed		N/A	 	
Sample Status		NORMAL	 	
Sample Status		HORMAL		
OIL CON	NITION			
		- 10.0	 	
Visc @ 40°C	cSt	42.0	 	
CONTAN				
CONTAM	IINATION			
Water	%	NEG	 	
Silicon	ppm	■11	 	
Sodium	ppm	2	 	
Potassium	ppm	2	 	
Otassiain	РРШ			
VOLVO				
WEAR M	IETALS			
Iron	ppm	101	 	
Copper	ppm	-<1	 	
Lead	ppm	0	 	
Tin	ppm	□ 0	 	
Aluminum	ppm	2	 	
Chromium	ppm	1	 	
Molybdenum	ppm	1	 	
Nickel	ppm	-<1	 	
Titanium	ppm	<1	 	
Silver	ppm	0	 	
Manganese	ppm	2	 	
Vanadium	ppm	<1	 	
ADDITIV	ES			
Calcium	ppm	4167	 	
Magnesium	ppm	9	 	
Zinc	ppm	1805	 	
Phosphorus	ppm	1616	 	
Barium	ppm	0	 	
Boron	ppm	152	 	
DOTOIT	ppili	132		



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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. The condition of the oil is acceptable for the time in service.

Depot:VOLVO0093Unique No:11072513Signed:Don BaldridgeReport Date:12 Jun 2024







