

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id VOLVO A35F 10333 Component Rear Axle

Fluid SAE 75W90 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

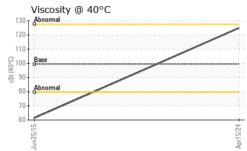
Fluid Condition

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

SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ML0001428	VCP186750	
Sample Date		Client Info		15 Apr 2024	25 Jun 2015	
Machine Age	hrs	Client Info		19165	4104	
Oil Age	hrs	Client Info		1000	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	ABNORMAL	
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>900	7	254	
Chromium	ppm	ASTM D5185m	>20	0	4	
Nickel	ppm	ASTM D5185m	>10	0	1	
Titanium	ppm	ASTM D5185m		0	7	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>30	<1	2	
Lead	ppm	ASTM D5185m	>50	0	<1	
Copper	ppm	ASTM D5185m	>150	0	4	
Tin	ppm	ASTM D5185m	>20	0	<1	
Antimony	ppm	ASTM D5185m			0	
Vanadium	ppm	ASTM D5185m	20	0	0	
Cadmium	ppm	ASTM D5185m		0	0	
	ppiii					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		195	248	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		7	16	
Manganese	ppm	ASTM D5185m		<1	33	
Magnesium	nnm	ASTM D5185m				
Magnesium	ppm			19	0	
Calcium	ppm	ASTM D5185m		19 180	0 63	
-						
Calcium	ppm	ASTM D5185m		180	63	
Calcium Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m		180 994	63 2090	
Calcium Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	180 994 87	63 2090 21	
Calcium Phosphorus Zinc Sulfur	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		180 994 87 21008	63 2090 21 21134	
Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method		180 994 87 21008 current	63 2090 21 21134 history1	
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	>50	180 994 87 21008 current 3	63 2090 21 21134 history1 20	 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	>50	180 994 87 21008 current 3 0	63 2090 21 21134 history1 20 4	 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	>50 >20	180 994 87 21008 current 3 0 <1	63 2090 21 21134 history1 20 4 8	 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>50 >20 limit/base	180 994 87 21008 current 3 0 <1 current	63 2090 21 21134 <u>history1</u> 20 4 8 <u>history1</u>	 history2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m XSTM D5185m	>50 >20 limit/base NONE	180 994 87 21008 current 3 0 <1 current NONE	63 2090 21 21134 history1 20 4 8 8 history1 ▲ HEAVY	 history2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *Visual	>50 >20 limit/base NONE NONE	180 994 87 21008 current 3 0 <1 current NONE NONE	63 2090 21 21134 history1 20 4 8 8 history1 ▲ HEAVY NONE	 history2 history2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual	>50 >20 limit/base NONE NONE NONE	180 994 87 21008 current 3 0 <1 current NONE NONE NONE	63 2090 21 21134 20 4 8 0 4 8 HEAVY NONE NONE NONE	 history2 history2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Visual *Visual *Visual *Visual	>50 >20 limit/base NONE NONE NONE NONE	180 994 87 21008 current 3 0 <1 current NONE NONE NONE NONE NONE	63 2090 21 21134 20 4 8 8 history1 ▲ HEAVY NONE NONE NONE NONE	 history2 history2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>50 >20 Iimit/base NONE NONE NONE NONE NONE	180 994 87 21008 current 3 0 <1 current NONE NONE NONE NONE NONE NONE NONE	63 2090 21 21134 21134 20 4 8 8 history1 ▲ HEAVY NONE NONE NONE NONE NONE NONE NONE	 history2 history2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Potassium VISUAL White Metal Yellow Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>50 >20 Iinit/base NONE NONE NONE NONE NONE NONE NONE	180 994 87 21008 current 3 0 <1 <1 current NONE NONE NONE NONE NONE NONE NONE NON	63 2090 21 21134 bistory1 20 4 8 8 bistory1 ▲ HEAVY NONE NONE NONE NONE NONE NONE NONE NON	 history2 history2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>50 >20 Imit/base NONE NONE NONE NONE NONE NONE NONE NORML NORML	180 994 87 21008 current 3 0 <1 current NONE NONE NONE NONE NONE NONE NONE NON	63 2090 21 21134 history1 20 4 8 bistory1 ▲ HEAVY NONE NONE NONE NONE NONE NONE NONE NON	history2 history2 history2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>50 >20 Iinit/base NONE NONE NONE NONE NONE NONE NONE	180 994 87 21008 current 3 0 <1 <1 current NONE NONE NONE NONE NONE NONE NONE NON	63 2090 21 21134 bistory1 20 4 8 8 bistory1 ▲ HEAVY NONE NONE NONE NONE NONE NONE NONE NON	 history2 history2 history2



OIL ANALYSIS REPORT



Visc @ 40°C c SAMPLE IMAGES	St ASTM D44		125	61.41	
SAMPLE IMAGES	method	limit/booo			
		limit/base	current	history1	history2
Color			no image	no image	no image
Apr15/24 +					
<i>≩</i> Bottom			no image	no image	no image
GRAPHS					
Ferrous Alloys					
250 - iron mickel					
200					
<u>ة</u> 150					
100					
50 -					
0					
Jun 25/15		Apr15/24			
⊰ Non-ferrous Metals		4			
10 9 copper					
8 - second tin					
6					
Ē. 5-					
3					
2					
		24			
Jun25/15		Apr15/24			
Viscosity @ 40°C					
120		1			
110-	/				
© 100 - Base					
다 100 - Base 당 100 - 당 영 90 -	/				
80 - Abnormal		-			
70					
60		6/24			
Jun25/15		Apr15/24			
	Andina - Aug C	NO OZELO	Noolin		
	Received :	19 Apr 2024	MCCLUN	G-LOGAN EQUIPMEN 1345 MOI	JNTAIN ROA
		22 Apr 2024 24 Apr 2024 - Jona	than Hester	GL	EN ALLEN, V US 2306
st Package : CONST nple report, contact Customer Service	-			Contact: K	YLE RATLIFF

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (804)266-1611

Certificate L2367

Submitted By: Service - Alex Anderson Page 2 of 2

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