

OIL ANALYSIS REPORT

Sample Rating Trend







VOLVO A35F 10333
Component
Front 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.

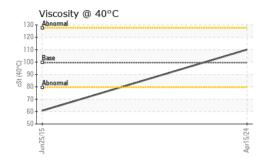
			Jun2015	AprŽ024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ML0001429	VCP186764	
Sample Date		Client Info		15 Apr 2024	25 Jun 2015	
Machine Age	hrs	Client Info		19165	4104	
Oil Age	hrs	Client Info		1000	0	
Oil Changed	1110	Client Info		Changed	Changed	
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	26	369	
Chromium	ppm	ASTM D5185m	>20	0	5	
Nickel	ppm	ASTM D5185m	>10	0	2	
Titanium	ppm	ASTM D5185m		0	9	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>30	<1	3	
Lead	ppm	ASTM D5185m	>50	0	<1	
Copper	ppm	ASTM D5185m	>150	0	6	
Tin	ppm	ASTM D5185m	>20	0	<1	
Antimony	ppm	ASTM D5185m	>5		0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		166	316	
				•	0	
Barium	ppm	ASTM D5185m		0	0	
	ppm ppm	ASTM D5185m ASTM D5185m		6	23	
Molybdenum				-		
Molybdenum Manganese	ppm	ASTM D5185m		6	23	
Molybdenum Manganese Magnesium	ppm	ASTM D5185m ASTM D5185m		6	23 38	
Molybdenum Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		6 1 13	23 38 0	
Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		6 1 13 127	23 38 0 94	
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		6 1 13 127 936	23 38 0 94 2635	
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	6 1 13 127 936 110	23 38 0 94 2635 36	
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		6 1 13 127 936 110 19961	23 38 0 94 2635 36 27895	
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		6 1 13 127 936 110 19961	23 38 0 94 2635 36 27895	
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm	ASTM D5185m	>50	6 1 13 127 936 110 19961 current	23 38 0 94 2635 36 27895 history1	 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>50	6 1 13 127 936 110 19961 current 4 <1	23 38 0 94 2635 36 27895 history1 12 5	 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>50 >20	6 1 13 127 936 110 19961 current 4 <1	23 38 0 94 2635 36 27895 history1 12 5 8	history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>50 >20 limit/base	6 1 13 127 936 110 19961 current 4 <1 2 current	23 38 0 94 2635 36 27895 history1 12 5 8	history2 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m	>50 >20 limit/base NONE	6 1 13 127 936 110 19961 current 4 <1 2 current NONE	23 38 0 94 2635 36 27895 history1 12 5 8 history1 A HEAVY	history2 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual	>50 >20 limit/base NONE NONE	6 1 13 127 936 110 19961 current 4 <1 2 current NONE NONE	23 38 0 94 2635 36 27895 history1 12 5 8 history1 A HEAVY NONE	history2 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m ASTM D5185m **Visual **Visual	>50 >20 limit/base NONE NONE NONE	6 1 13 127 936 110 19961 current 4 <1 2 current NONE NONE NONE	23 38 0 94 2635 36 27895 history1 12 5 8 history1 A HEAVY NONE NONE	history2 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar	ASTM D5185m method ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual	>50 >20 limit/base NONE NONE NONE NONE	6 1 13 127 936 110 19961 current 4 <1 2 current NONE NONE NONE NONE	23 38 0 94 2635 36 27895 history1 12 5 8 history1 A HEAVY NONE NONE NONE	history2 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar	ASTM D5185m method ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual	>50 >20 limit/base NONE NONE NONE NONE NONE NONE	6 1 13 127 936 110 19961 current 4 <1 2 current NONE NONE NONE NONE NONE NONE	23 38 0 94 2635 36 27895 history1 12 5 8 history1 A HEAVY NONE NONE NONE NONE	history2 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm	ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>50 >20 limit/base NONE NONE NONE NONE NONE NONE NONE NON	6 1 13 127 936 110 19961 current 4 <1 2 current NONE NONE NONE NONE NONE NONE NONE NON	23 38 0 94 2635 36 27895 history1 12 5 8 history1 A HEAVY NONE NONE NONE NONE NONE NONE NONE	history2 history2
Molybdenum Manganese Magnesium 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 ppm ppm ppm	ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual	>50 >20 limit/base NONE NONE	6 1 13 127 936 110 19961 current 4 <1 2 current NONE NONE NONE NONE NONE NONE NONE NON	23 38 0 94 2635 36 27895 history1 12 5 8 history1 A HEAVY NONE NONE NONE NONE NONE NONE NONE NON	history2 history2

ted RyEService - Alex Anderson

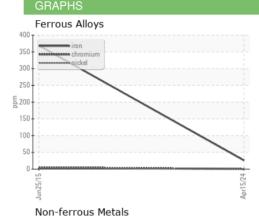
NEG

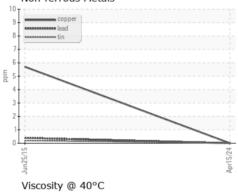


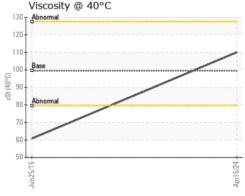
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	99.5	110	60.74	
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image
CDARLIC						









Certificate 12367

Laboratory Sample No. : ML0001429 Lab Number : 06154964 Unique Number : 10990387 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Apr 2024

Tested : 22 Apr 2024 : 24 Apr 2024 - Jonathan Hester Diagnosed

MCCLUNG-LOGAN EQUIPMENT CO - RICHMOND 1345 MOUNTAIN ROAD

GLEN ALLEN, VA US 23060

Contact: KYLE RATLIFFE KRATLIFFE@MCCLUNG-LOGAN.COM

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)

Report Id: VOLVO8882 [WUSCAR] 06154964 (Generated: 04/24/2024 09:17:16) Rev: 1

Submitted By: Service - Alex Anderson

F: (804)266-1611