

Machine Id

RECOMMENDATION

## VOLVO A35F 10333 Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 (--- GAL)

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

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All component wear rates are normal.

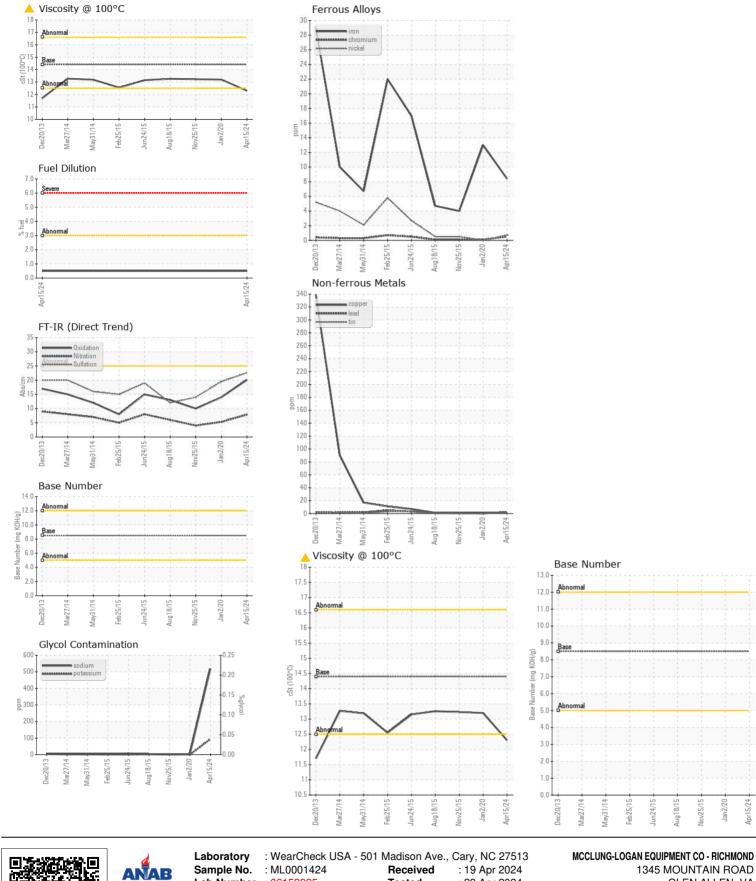
## CONTAMINATION

Sodium and/or potassium levels are high. Fuel content negligible.

<b>FLU</b>	חוו	CO		ITI	
FLU	שוי	CO	UV		

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		ML0001424	VCP263313	VCP182477
r	Sample Date		Client Info		15 Apr 2024	02 Jan 2020	25 Nov 2015
en	Machine Age	hrs	Client Info		19165	0	4940
	Oil Age	hrs	Client Info		800	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	N/A	Changed
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
	Iron	ppm	ASTM D5185m	>200	8	13	4
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>10	<1	0	<1
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>2	<1	0	0
	Aluminum	ppm	ASTM D5185m	>30	4	5	2
	Lead	ppm	ASTM D5185m	>40	2	<1	<1
	Copper	ppm	ASTM D5185m	>20	1	<1	<1
	Tin	ppm	ASTM D5185m	>20	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Silicon	ppm	ASTM D5185m	>20	9	6	4
	Potassium	ppm	ASTM D5185m	>20	<b>4</b> 94	<1	1
	Fuel	%	ASTM D3524	>3.0	0.5	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	%	*ASTM D2982		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.1	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	7.9	5.3	4.
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.6	19.5	14.
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
	Sodium	ppm	ASTM D5185m	>158	<b>518</b>	3	1
	Boron	ppm	ASTM D5185m		46	362	267
	Barium	ppm	ASTM D5185m	10	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	114	118	65
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		456	493	422
	Calcium	ppm	ASTM D5185m	3000	1677	1572	1273
	Phosphorus	ppm	ASTM D5185m	1150	961	774	889
	Zinc	ppm	ASTM D5185m	1350	1101	850	952
	Sulfur	ppm	ASTM D5185m	4250	3297	3558	3645
	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.1	14	10.
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	44.4		
	Dase Nulliber (DN)	ing iton/g	AGTIVI DZ030	0.0	11.4		



Lab Number : 06153995 Tested : 23 Apr 2024 GLEN ALLEN, VA US 23060 Unique Number : 10989418 Diagnosed : 23 Apr 2024 - Jonathan Hester Test Package : CONST (Additional Tests: FuelDilution, Glycol, PercentFuel, TBN) Contact: KYLE RATLIFFE Certificate L2367 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. T: F: (804)266-1611 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: Service - Alex Anderson Page 2 of 2