

OIL ANALYSIS REPORT

Sample Rating Trend





VOLVO A40G 340455 Component Diesel Engine

Fluid DIESEL ENGINE OIL SAE 15W40 (--- 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

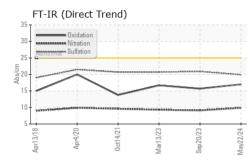
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ML0001768	VCP414686	VCP402987
Sample Date		Client Info		22 May 2024	20 Sep 2023	13 Mar 2023
Machine Age	hrs	Client Info		5148	5148	4097
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
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CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	14	14	23
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	1	3
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	3	2	8
Lead	ppm	ASTM D5185m	>40	<1	1	2
Copper	ppm	ASTM D5185m	>330	2	2	3
Tin	ppm	ASTM D5185m	>15	0	<1	1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	37	98	38
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	52	59	59
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	696	518	301
Calcium	ppm	ASTM D5185m	3000	1444	1766	1683
Phosphorus	ppm	ASTM D5185m	1150	780	969	856
Zinc	ppm	ASTM D5185m	1350	930	1192	1011
Sulfur	ppm	ASTM D5185m	4250	2851	3807	2485
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon						
Sodium	maa	ASTM D5185m	>25	7	8	19
	ppm ppm	ASTM D5185m ASTM D5185m	>25 >158	7 3	8	19 <1
Potassium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>25 >158 >20	7 3 0		
Potassium	ppm	ASTM D5185m	>158	3	2	<1
	ppm	ASTM D5185m ASTM D5185m	>158 >20	3 0 current	2 2	<1 2
INFRA-RED Soot %	ppm ppm	ASTM D5185m ASTM D5185m method *ASTM D7844	>158 >20 limit/base >3	3 0 current 0.3	2 2 history1 0.4	<1 2 history2 0.3
INFRA-RED	ppm ppm	ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624	>158 >20 limit/base	3 0 current	2 2 history1	<1 2 history2
INFRA-RED Soot % Nitration Sulfation	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7824 *ASTM D7415	>158 >20 limit/base >3 >20 >30	3 0 current 0.3 9.9 19.9	2 2 history1 0.4 9.1 20.9	<1 2 history2 0.3 9.3 20.7
INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm ppm % Abs/cm Abs/.1mm TION	ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7415 method	>158 >20 limit/base >3 >20 >30 limit/base	3 0 current 0.3 9.9 19.9 current	2 2 history1 0.4 9.1 20.9 history1	<1 2 history2 0.3 9.3 20.7 history2
INFRA-RED Soot % Nitration Sulfation	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7824 *ASTM D7415	>158 >20 limit/base >3 >20 >30	3 0 current 0.3 9.9 19.9	2 2 history1 0.4 9.1 20.9	<1 2 history2 0.3 9.3 20.7

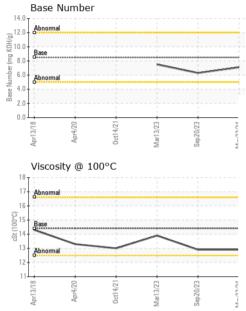
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Contact/Location: KYLE RATLIFFE - VOLVO8882

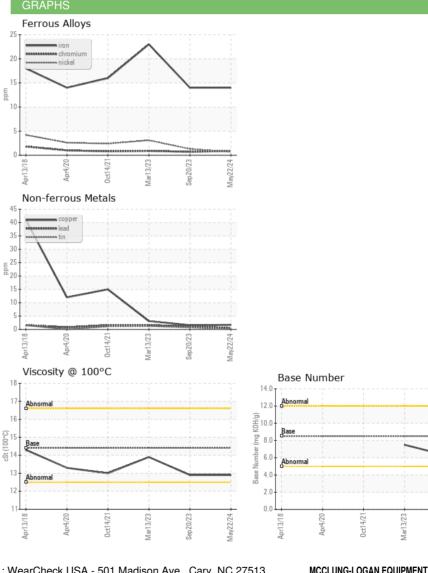


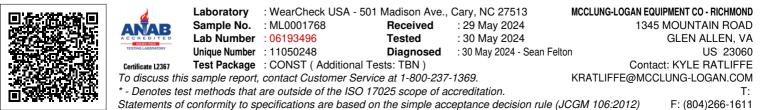
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	ΓIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	12.9	12.9	13.9





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May22/24

Sep20/23