

Machine Id

VOLVO A40G 353340 Component Diesel Engine Fluid

DIESEL ENGINE OIL SAE 40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.	Sample Number		Client Info		ASC0006367	VCP417757	
	Sample Date		Client Info		08 Jan 2024	11 Jul 2023	
	Machine Age	hrs	Client Info		943	437	
	Oil Age	hrs	Client Info		500	0	
	Filter Age	hrs	Client Info		500	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ABNORMAL	
WEAR Metal levels are typical for a new component breaking in.	Iron	ppm	ASTM D5185m		4	16	
	Chromium	ppm	ASTM D5185m		0	<1	
	Nickel	ppm	ASTM D5185m	>2	2	4	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>25	0	4	
	Lead	ppm	ASTM D5185m		<1	3	
	Copper	ppm	ASTM D5185m	>330	29	1 71	
	Tin	ppm	ASTM D5185m	>15	<1	3	
	Vanadium	ppm	ASTM D5185m		0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
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CONTAMINATION	Silicon	ppm	ASTM D5185m		7	27	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		<1	7	
	Fuel		WC Method		<1.0	0.8	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844		0.1	0.2	
	Nitration	Abs/cm	*ASTM D7624	>20	7.0	9.7	
	Sulfation	Abs/.1mm	*ASTM D7415		18.6	19.6	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>216	1	4	
	Boron	ppm	ASTM D5185m		5	52	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		58	79	
	Manganese	ppm	ASTM D5185m	100	0	3	
	Magnesium	ppm	ASTM D5185m	450	831	39	
	Calcium	ppm	ASTM D5185m		1158	2144	
	Phosphorus	ppm	ASTM D5185m		968	990	
	Zinc	ppm	ASTM D5185m		1271	1207	
	Sulfur	ppm	ASTM D5185m		3104	4656	
	Oxidation						
	Oxidation	Abs/.1mm	*ASTM D7414	>20	13.7	14.5	

6.0

10.9

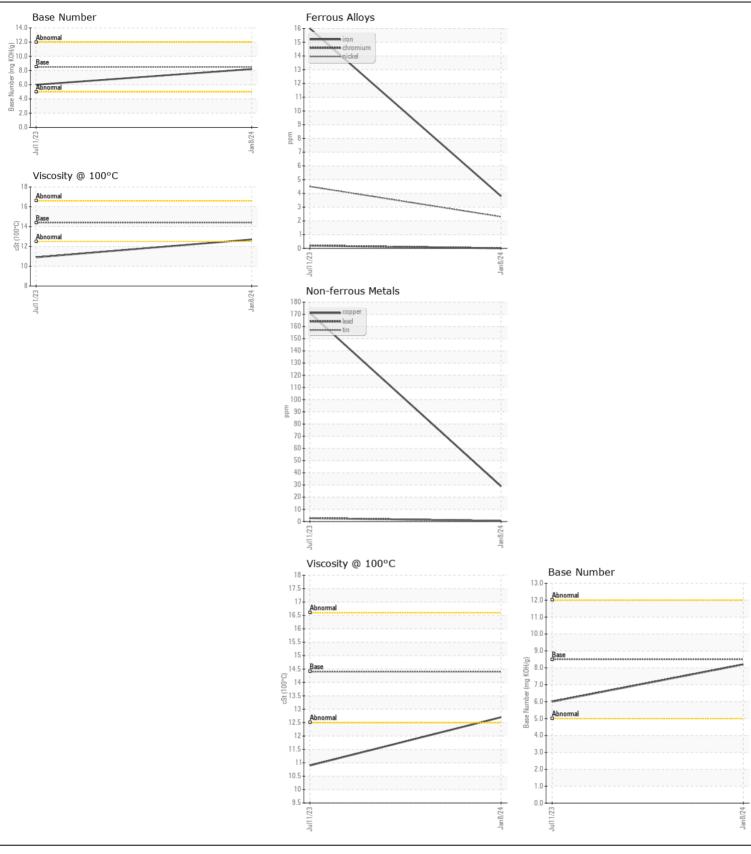
8.2

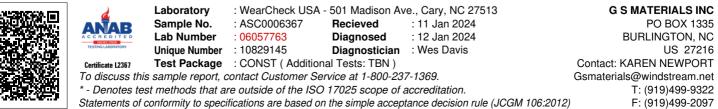
12.7

Base Number (BN) mg KOH/g ASTM D2896 8.5

ASTM D445 14.4

Visc @ 100°C cSt





Contact/Location: KAREN NEWPORT - GANBURNC

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