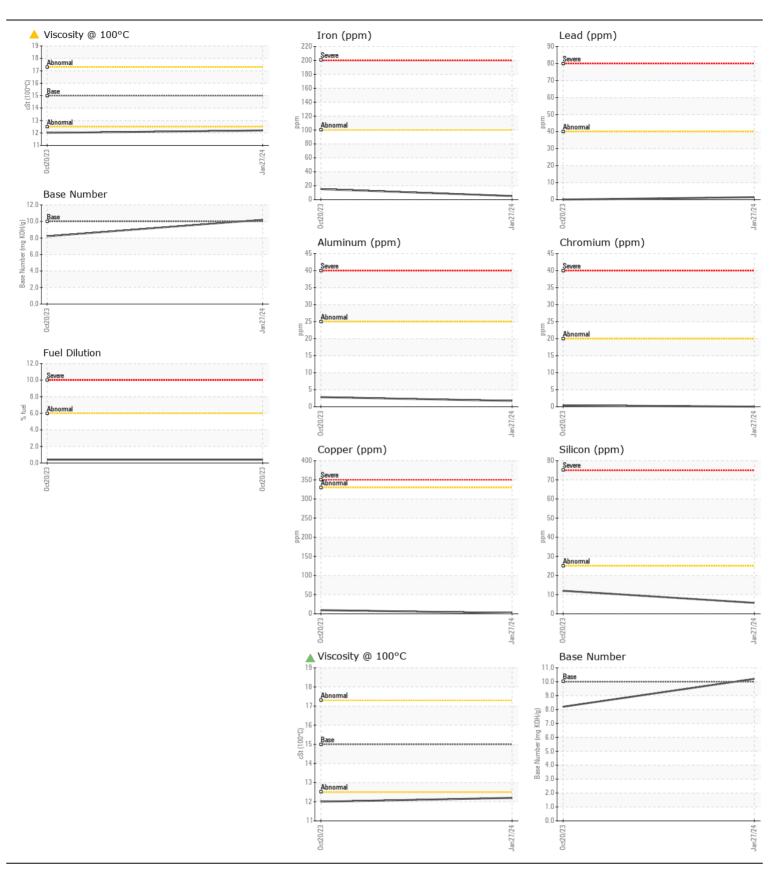


VOLVO A45G 353418

Component Diesel Engine

-			S-3 (G	··· ··· /			
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		VCP438448	VCP433540	
	Sample Date		Client Info		27 Jan 2024	20 Oct 2023	
	Machine Age	hrs	Client Info		1472	997	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	N/A	
	Sample Status				ATTENTION	ATTENTION	
WEAR	Iron	ppm	ASTM D5185m	>100	5	15	
	Chromium	ppm	ASTM D5185m	>20	0	<1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		1	2	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m	>2	0	0	
	Aluminum	ppm	ASTM D5185m		2	3	
	Lead	ppm	ASTM D5185m		1	0	
	Copper	ppm	ASTM D5185m		2	9	
	Tin	ppm	ASTM D5185m		- <1	1	
	Vanadium	ppm	ASTM D5185m		<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Ciliana		ACTA DE10E	05		40	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	12	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2	<1	
	Fuel	%	ASTM D3524		<1.0	0.4	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol	0/	WC Method	0	NEG	NEG	
	Soot %	%	*ASTM D7844		0.1	0.1	
	Nitration	Abs/cm	*ASTM D7624	>20	6.3	6.5	
	Sulfation	Abs/.1mm	*ASTM D7415		21.4	20.8	
	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		2	4	
	Boron	ppm	ASTM D5185m	2.5	54	66	
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m	0.0	0	<1	
	Molybdenum	ppm	ASTM D5185m	0.7	44	56	
	Manganese	ppm	ASTM D5185m	0.0	<1	<1	
	Magnesium	ppm	ASTM D5185m	256	498	600	
	Calcium	ppm	ASTM D5185m	2057	1574	1762	
	Phosphorus	ppm	ASTM D5185m	935	966	1102	
	Zinc	ppm	ASTM D5185m	1223	1105	1314	
	Sulfur	ppm	ASTM D5185m	4079	2970	3572	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	19.3	18.6	
	Base Number (BN)	mg KOH/g	ASTM D2896	10	10.2	8.2	
	Visc @ 100°C	cSt	ASTM D445	15.0	12.2	12.0	





Certificate L2367

Report Id: VOLVO0090 [WUSCAR] 06075463 (Generated: 02/01/2024 13:08:10) Rev: 1

Laboratory Sample No. Lab Number **Unique Number**

: 06075463 : 10857554

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 31 Jan 2024 : VCP438448 Diagnosed : 01 Feb 2024

Diagnostician : Don Baldridge Test Package : MOB 1 (Additional Tests: FuelDilution, TBN) 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.

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