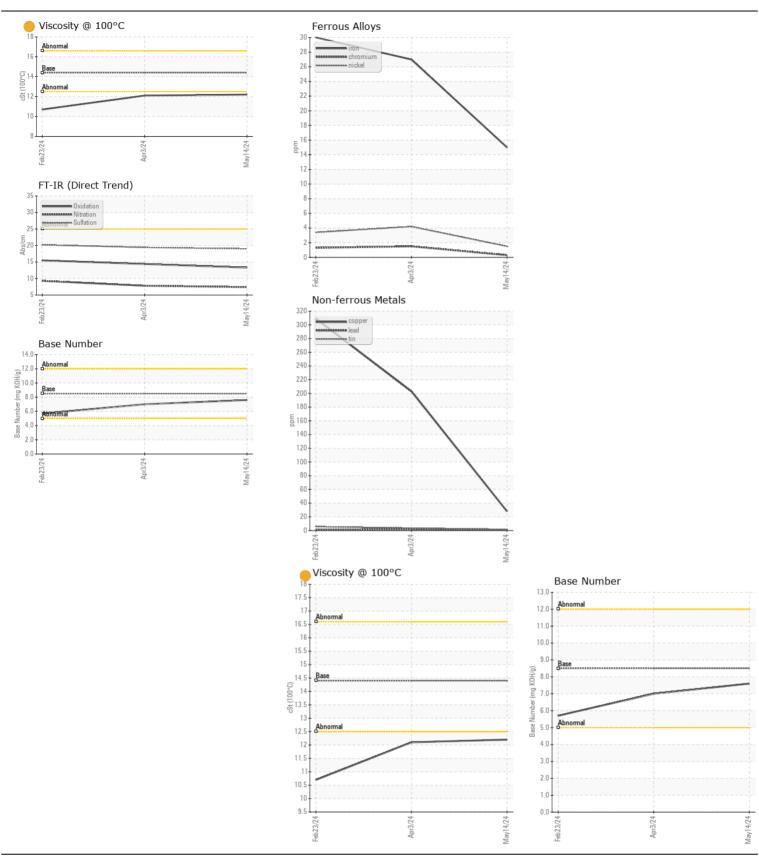


Machine Id VOLVO A45G 13418 (S/N 752224)

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		ASC0008812		ASC0008508
	Sample Date		Client Info		14 May 2024	03 Apr 2024	23 Feb 2024
	Machine Age	hrs	Client Info		2034	1399	750
	Oil Age	hrs	Client Info		1385	649	750
	Filter Age	hrs	Client Info		0	0	750
	Oil Changed		Client Info		N/A	N/A	Changed
	Filter Changed		Client Info		N/A	N/A	Changed
	Sample Status				ATTENTION	ATTENTION	ATTENTION
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	15	27	30
	Chromium	ppm	ASTM D5185m	>20	<1	2	1
	Nickel	ppm	ASTM D5185m	>2	2	4	3
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>2	0	<1	0
	Aluminum	ppm	ASTM D5185m		3	3	4
	Lead	ppm	ASTM D5185m		<1	2	1
	Copper	ppm	ASTM D5185m		28	203	309
	Tin	ppm	ASTM D5185m	>15	2	4	6
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	11	27
	Potassium	ppm	ASTM D5185m	>20	1	3	2
There is no indication of any contamination in the oil.	Fuel		WC Method	>6.0	<1.0	<1.0	0.8
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.8	0.5	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	7.4	7.8	9.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	19.4	20.2
	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
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	2	<1	4
	Boron	ppm	ASTM D5185m	250	2	5	30
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	10	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	59	98	92
	Manganese	ppm	ASTM D5185m		<1	1	2
	Magnesium	ppm	ASTM D5185m		882	1191	33
	Calcium	ppm	ASTM D5185m	3000	1034	1729	2295
	Phosphorus	ppm	ASTM D5185m		992	1320	1016
	Zinc	ppm	ASTM D5185m		1160	1737	1200
	Sulfur	ppm	ASTM D5185m		3101	4013	3549
	Oxidation	Abs/.1mm	*ASTM D7414		13.3	14.4	15.5
	Base Number (BN)				7.6	7.0	5.7
	Visc @ 100°C	cSt	ASTM D445	14.4	12.2	12.1	10.7







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06193739

: ASC0008812

Received **Tested** Unique Number : 11050491 Diagnosed

: 29 May 2024 : 30 May 2024 : 30 May 2024 - Sean Felton

2002 N GREENE ST GREENVILLE, NC US 27834

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Contact: ALLEN WILLIAMS

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Test Package : CONST (Additional Tests: 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.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)