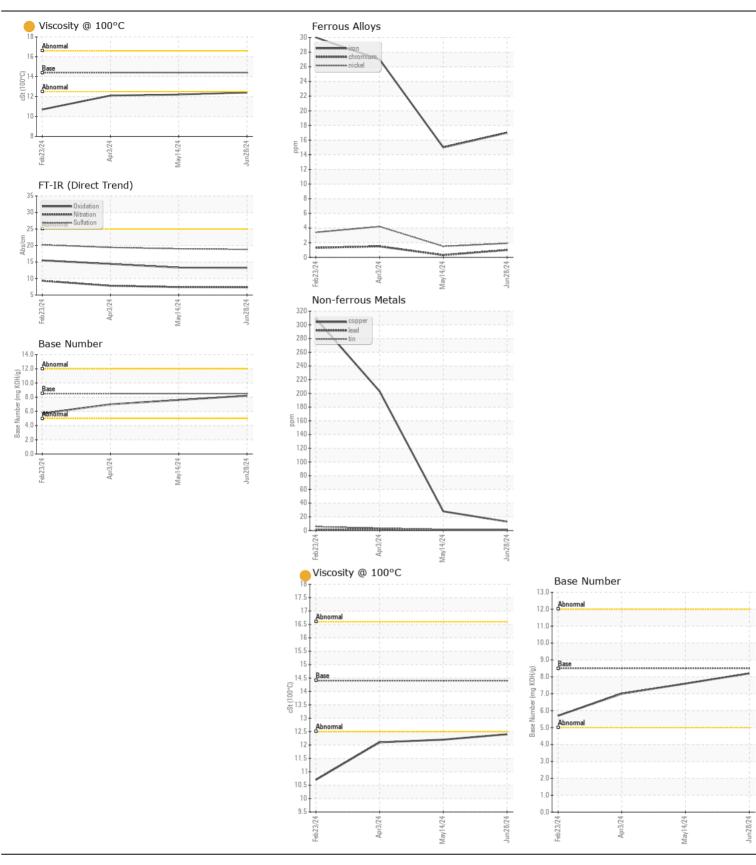


VOLVO A45G 13418 (S/N 752224) Component _

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DIESEL ENGINE OIL SAE 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		ASC0011111	ASC0008812	ASC0008823
	Sample Date		Client Info		28 Jun 2024	14 May 2024	03 Apr 2024
	Machine Age	hrs	Client Info		2649	2034	1399
	Oil Age	hrs	Client Info		1365	1385	649
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	N/A	N/A
	Filter Changed		Client Info		Changed	N/A	N/A
	Sample Status				ATTENTION	ATTENTION	ATTENTION
WEAR	Iron	ppm	ASTM D5185m	>100	17	15	27
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	1	<1	2
	Nickel	ppm	ASTM D5185m	>2	2	2	4
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>2	<1	0	<1
	Aluminum	ppm	ASTM D5185m	>25	2	3	3
	Lead	ppm	ASTM D5185m	>40	1	<1	2
	Copper	ppm	ASTM D5185m	>330	13	28	203
	Tin	ppm	ASTM D5185m	>15	1	2	4
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	4	11
CONTAMINATION	Potassium	ppm	ASTM D5185m		4	1	3
There is no indication of any contamination in the oil.	Fuel	le le · · ·	WC Method	>6.0	<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.7	0.8	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	7.3	7.4	7.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	19.0	19.4
	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	<1	2	<1
	Boron	ppm	ASTM D5185m	250	1	2	5
The oil viscosity is lower than normal. The BN result indicates that	Barium	ppm	ASTM D5185m	10	<1	0	0
there is suitable alkalinity remaining in the oil. Confirm oil type.	Molybdenum	ppm	ASTM D5185m	100	61	59	98
	Manganese	ppm	ASTM D5185m		<1	<1	1
	Magnesium	ppm	ASTM D5185m	450	933	882	1191
	Calcium	ppm	ASTM D5185m		1090	1034	1729
	Phosphorus	ppm	ASTM D5185m		1124	992	1320
	Zinc	ppm	ASTM D5185m		1248	1160	1737
	Sulfur	ppm	ASTM D5185m		2895	3101	4013
	Oxidation	Abs/.1mm	*ASTM D7414		13.2	13.3	14.4
	Base Number (BN)				8.2	7.6	7.0
	Visc @ 100°C	cSt	ASTM D445	14.4	12.4	12.2	12.1







Certificate L2367

Laboratory Sample No.

Lab Number : 06238655

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : ASC0011111

Tested Unique Number : 11127489 Diagnosed Test Package : CONST (Additional Tests: TBN)

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

Received : 16 Jul 2024 : 17 Jul 2024 : 18 Jul 2024 - Sean Felton

117 - ASCENDUM MACHINERY INC - GREENVILLE 2002 N GREENE ST

GREENVILLE, NC US 27834

Contact: ALLEN WILLIAMS

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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Submitted By: Service - Brandon Lewis