

WEAR NORMAL CONTAMINATION NORMAL **FLUID CONDITION** NORMAL

Machine Id VOLVO A45G 13382 (S/N 353445)

Diesel Engine

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DIESEL ENGINE OIL SAE 30 (--- GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		ASC0002547	ASC0008592	VCP412120
	Sample Date		Client Info		04 Apr 2024	23 Feb 2024	10 Jan 2024
	Machine Age	hrs	Client Info		3666	3287	2733
	Oil Age	hrs	Client Info		379	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	<1	14	8
	Chromium	ppm	ASTM D5185m	>20	0	<1	<1
	Nickel	ppm	ASTM D5185m	>2	<1	6	5
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>25	2	4	2
	Lead	ppm	ASTM D5185m	>40	0	<1	0
	Copper	ppm	ASTM D5185m	>330	2	7	21
	Tin	ppm	ASTM D5185m	>15	0	1	1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	0	5	3
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		0	<1	<1
	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
	Soot %	%	*ASTM D7844	>3	0.4	0.5	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	7.0	8.1	7.0
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.0	18.2	18.0
	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	>75	2	1	<1
	Boron	ppm	ASTM D5185m	250	2	2	5
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	10	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	55	64	57
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	862	978	825
	Calcium	ppm	ASTM D5185m	3000	1013	1124	975
	Phosphorus	ppm	ASTM D5185m	1150	941	1059	919
	Zinc	ppm	ASTM D5185m	1350	1056	1232	1112
	Sulfur	ppm	ASTM D5185m	4250	3123	3269	2724
	Oxidation	Abs/.1mm	*ASTM D7414		13.4	14.2	13.0
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.3	7.5	7.9
	1/	0.	AOTH DAAF	10.0		100	10.0

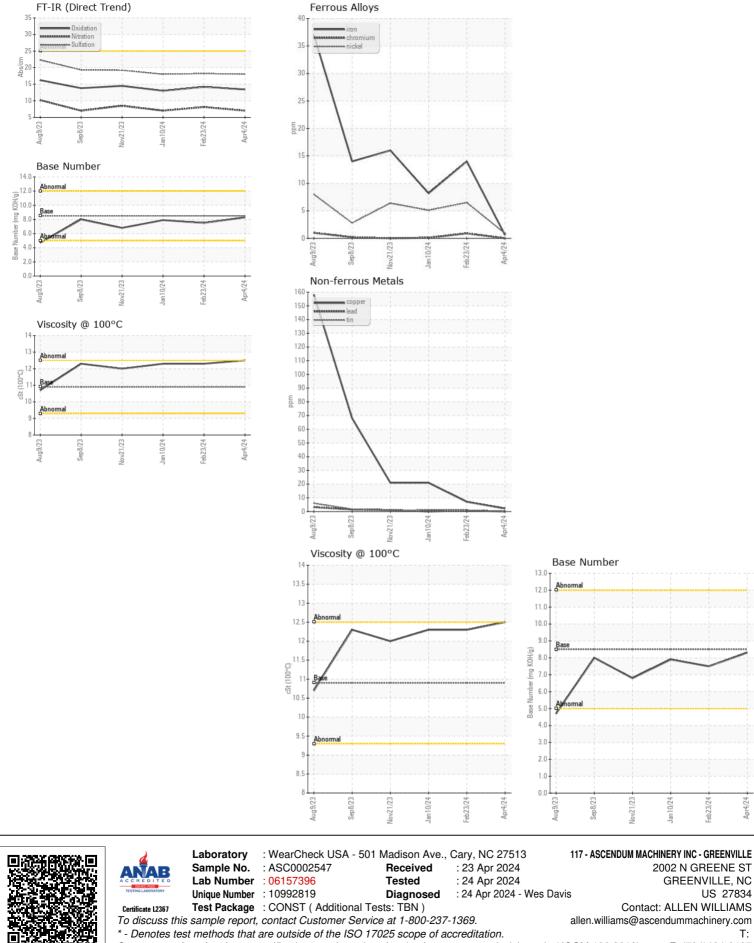
Visc @ 100°C cSt

ASTM D445 10.9

12.5

12.3

12.3



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (704)494-8197