

## WEAR NORMAL CONTAMINATION NORMAL **FLUID CONDITION** NORMAL

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## [20019] VOLVO A45G 353454

Component Diesel Engine

DIESEL ENGINE OIL SAE 30 (--- 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 30. Please confirm.	Sample Number		Client Info		VCP368268	VCP416868	VCP408088
	Sample Date		Client Info		01 Nov 2023	03 Aug 2023	01 Jun 2023
	Machine Age	hrs	Client Info		3329	2143	1467
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	28	14	20
	Chromium	ppm	ASTM D5185m		0	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		3	2	2
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m		2	2	0
	Lead	ppm	ASTM D5185m		3	2	2
	Copper	ppm	ASTM D5185m		114	6	21
	Tin	ppm	ASTM D5185m		1	2	2
	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	5	5	8
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	0	3	<1
	Fuel	%	ASTM D3524	>6.0	<1.0	1.9	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	1.2	0.6	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	10.1	8.0	8.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	18.5	20.6
	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	1	2	<1
	Boron	ppm	ASTM D5185m	250	<1	2	2
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	0
	Molybdenum	ppm	ASTM D5185m		57	62	65
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m	450	879	949	802
	Calcium	ppm	ASTM D5185m		1048	1114	1155
	Phosphorus	ppm	ASTM D5185m		809	995	978
	Zinc	ppm	ASTM D5185m		1125	1215	1199
	Culture				0400	0401	0107

Sulfur

Oxidation

Visc @ 100°C cSt

ppm ASTM D5185m 4250

Abs/.1mm \*ASTM D7414 >25

ASTM D445 10.9

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

3461

13.8

7.6

12.3

2123

17.0

5.9

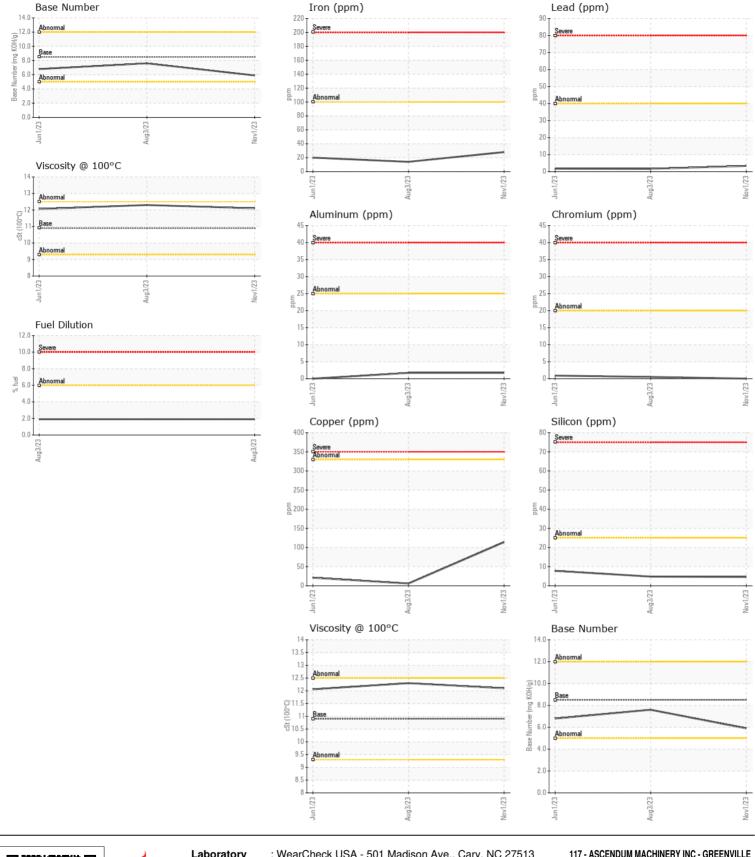
12.1

3167

16.5

6.8

12.06



**117 - ASCENDUM MACHINERY INC - GREENVILLE** Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 回祝 Sample No. Recieved 2002 N GREENE ST : VCP368268 : 11 Jan 2024 Lab Number GREENVILLE, NC : 06057641 Diagnosed : 11 Jan 2024 : 10823590 US 27834 **Unique Number** Diagnostician : Wes Davis Test Package : MOB 1 (Additional Tests: FuelDilution, TBN) Contact: ALLEN WILLIAMS Certificate L2367 allen.williams@ascendummachinery.com 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. T: F: (704)494-8197 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: ALLEN WILLIAMS - VOLVO8769

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