

Machine Id VOLVO A45G 353453 onen **Diesel Engine**

DIESEL ENGINE OIL SAE 40 (--- GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		ASC0008839	VCP443493	VCP432534
	Sample Date		Client Info		03 Apr 2024	06 Feb 2024	05 Dec 2023
	Machine Age	hrs	Client Info		5302	4921	4015
	Oil Age	hrs	Client Info		381	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	ABNORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	8	20	27
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m		3	<b>5</b>	▲ 5
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>2	<1	0	0
	Aluminum	ppm	ASTM D5185m	>25	3	4	4
	Lead	ppm	ASTM D5185m		<1	1	2
	Copper	ppm	ASTM D5185m	>330	16	18	70
	Tin	ppm	ASTM D5185m	>15	1	2	1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Silicon		ASTM D5185m	. 05	а. А	E	6
CONTAMINATION	Potassium	ppm	ASTM D5185m		4	5	6 0
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		2 <1.0	∠ ▲ 3.4	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	>0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	. ?	0.4	0.7	1
	Nitration	Abs/cm	*ASTM D7624	>20	7.1	8.6	9.9
	Sulfation	Abs/.1mm	*ASTM D7024		18.4	20.2	21.1
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	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.	Boron	ppm	ASTM D5185m		2	2	0
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	100	61	60	57
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		852	863	980
	Calcium	ppm	ASTM D5185m		1020	1024	1168
	Phosphorus	ppm	ASTM D5185m		876	834	920
	Zinc	ppm	ASTM D5185m		1107	1151	1155
	Sulfur	ppm	ASTM D5185m		2871	2556	2535
	Oxidation	Abs/.1mm	*ASTM D7414		13.7	15.1	16.6
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.1	4.1	6.0
	Vier @ 10000	- 0+		- 4 4	400	44 5	110

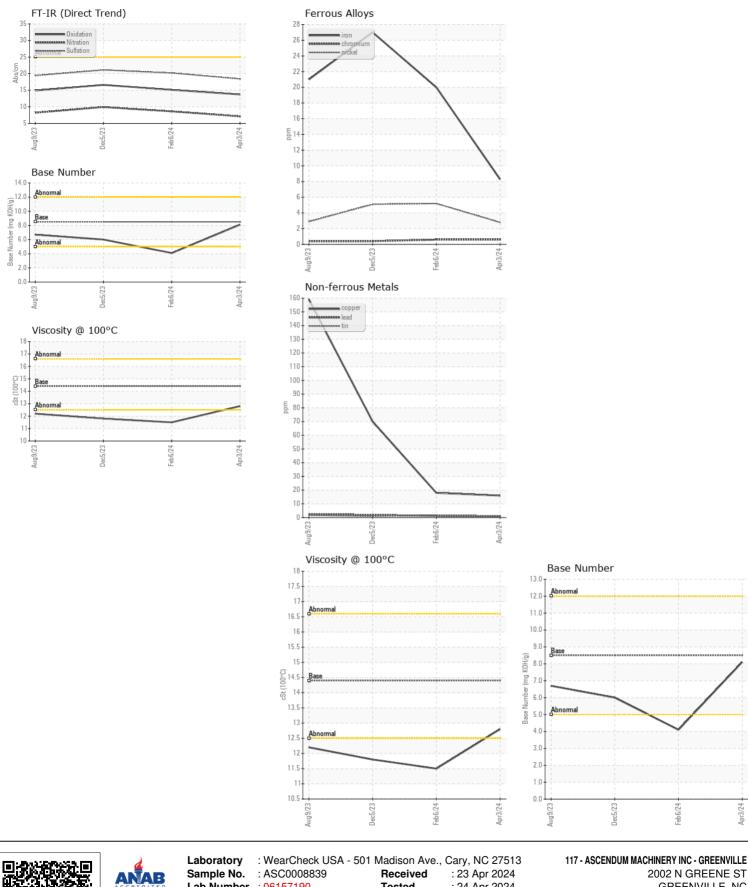
ASTM D445 14.4

Visc @ 100°C cSt

11.5

11.8

12.8



GREENVILLE, NC Lab Number : 06157190 Tested : 24 Apr 2024 Unique Number : 10992613 Diagnosed : 25 Apr 2024 - Jonathan Hester US 27834 Test Package : CONST (Additional Tests: TBN) Contact: ALLEN WILLIAMS Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. allen.williams@ascendummachinery.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (704)494-8197