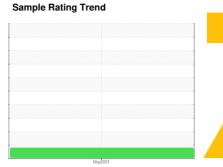


## **OIL ANALYSIS REPORT**









# **VOLVO A45G 353043**

Component
Diesel Engine

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

#### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

Valve wear is indicated.

#### Contamination

There is no indication of any contamination in the oil

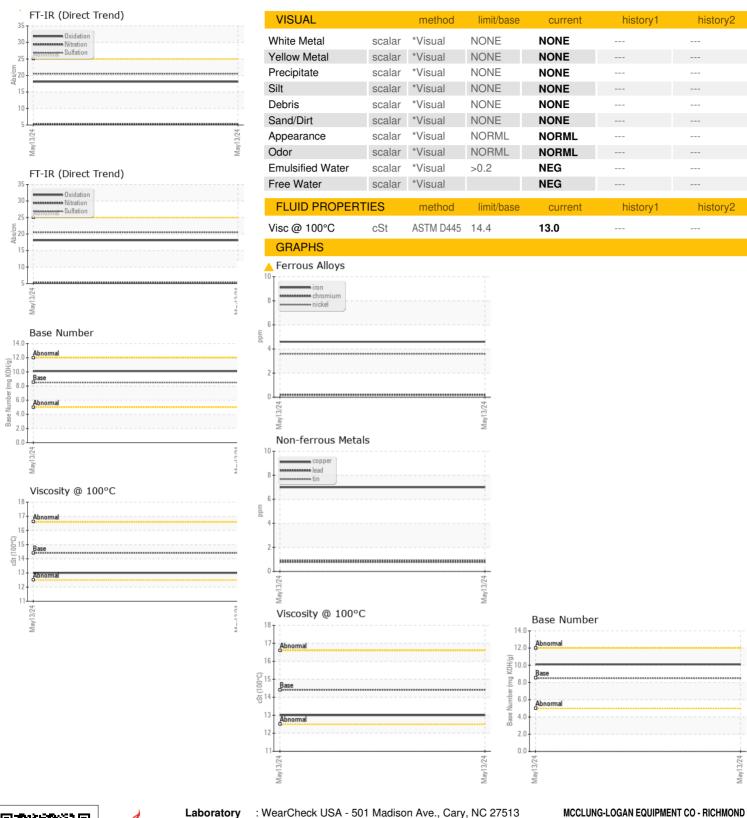
#### **Fluid Condition**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

AE 15W40 ( G	AL)			May2024		
0.11.151.5.11.5051						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ML0001937		
Sample Date		Client Info		13 May 2024		
Machine Age	hrs	Client Info		2012		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>6.0	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	5		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>2	<u>4</u>		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>2	<1		
Aluminum	ppm	ASTM D5185m	>25	2		
Lead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	7		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	79		
Barium	ppm	ASTM D5185m	10	0		
Molybdenum	ppm	ASTM D5185m	100	50		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	450	505		
Calcium	ppm	ASTM D5185m	3000	1564		
Phosphorus	ppm	ASTM D5185m	1150	825		
Zinc	ppm	ASTM D5185m	1350	912		
Sulfur	ppm	ASTM D5185m	4250	3214		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8		
Sodium	ppm	ASTM D5185m	>158	<1		
Potassium	ppm	ASTM D5185m	>20	2		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1		
Nitration	Abs/cm	*ASTM D7624	>20	5.3		
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.1		
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	10.1		



### **OIL ANALYSIS REPORT**







Report Id: VOLVO8882 [WUSCAR] 06180979 (Generated: 05/23/2024 07:25:05) Rev: 1

Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : ML0001937 **Lab Number** : 06180979 Unique Number : 11032305

Received **Tested** 

: 16 May 2024 Diagnosed

: 16 May 2024 : 20 May 2024 - Jonathan Hester

1345 MOUNTAIN ROAD GLEN ALLEN, VA US 23060 Contact: KYLE RATLIFFE

Test Package : CONST ( Additional Tests: TBN ) Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.  $^st$  - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

KRATLIFFE@MCCLUNG-LOGAN.COM

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

Contact/Location: KYLE RATLIFFE - VOLVO8882

F: (804)266-1611