

### **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# TAKEUCHI TB235 123605415

Component Diesel Engine Fluid VALVOLINE 15W40 (--- GAL)

#### DIAGNOSIS

#### Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### Wear

Metal levels are typical for a new component breaking in.

#### Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

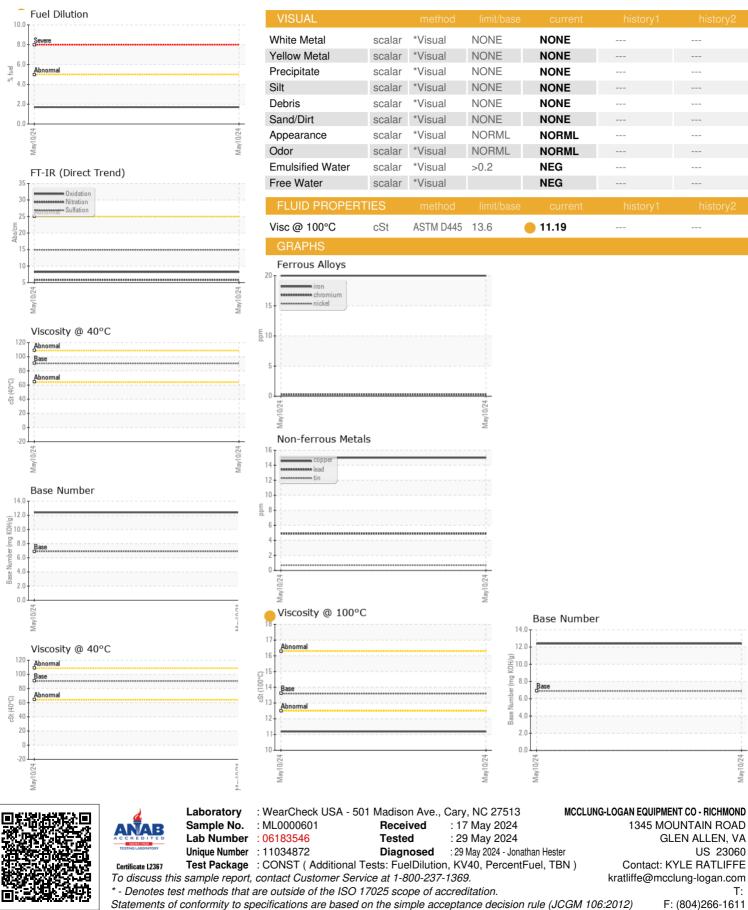
#### Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		ML0000601		
Sample Date		Client Info		10 May 2024		
Machine Age	hrs	Client Info		63		
Oil Age	hrs	Client Info		63		
Oil Changed		Client Info		Changed		
Sample Status				ATTENTION		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	20		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>4	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	<1		
Aluminum	ppm	ASTM D5185m	>20	6		
Lead	ppm	ASTM D5185m	>40	5		
Copper	ppm	ASTM D5185m	>330	15		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	39	59		
Barium	ppm	ASTM D5185m	1	13		
Molybdenum	ppm	ASTM D5185m	49	114		
Manganese	ppm	ASTM D5185m	1	2		
Magnesium	ppm	ASTM D5185m	616	11		
Calcium	ppm	ASTM D5185m	1554	3925		
Phosphorus	ppm	ASTM D5185m	899	1203		
Zinc	ppm	ASTM D5185m	1069	1294		
Sulfur	ppm	ASTM D5185m	2624	8078		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	63		
Sodium	ppm	ASTM D5185m		19		
Potassium	ppm	ASTM D5185m	>20	4		
Fuel	%	ASTM D3524	>5	1.7		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1		
Nitration	Abs/cm	*ASTM D7624	>20	5.8		
Sulfation	Abs/.1mm	*ASTM D7415	>30	14.9		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	8.2		
Base Number (BN)	mg KOH/g	ASTM D2896	6.9	12.4		



## **OIL ANALYSIS REPORT**



US 23060 Contact: KYLE RATLIFFE kratliffe@mcclung-logan.com T: F: (804)266-1611

1345 MOUNTAIN ROAD

GLEN ALLEN, VA

Report Id: VOLVO8882 [WUSCAR] 06183546 (Generated: 05/29/2024 17:03:07) Rev: 1

Contact/Location: KYLE RATLIFFE - VOLVO8882