

# **OIL ANALYSIS REPORT**



## Machine Id

#### 104 Component Diesel Engine Fluid HYDROTEX 15W40 (--- GAL)

#### DIAGNOSIS

#### A Recommendation

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

## 🔺 Wear

Piston, ring and cylinder wear is indicated.

#### Contamination

Light fuel dilution occurring.

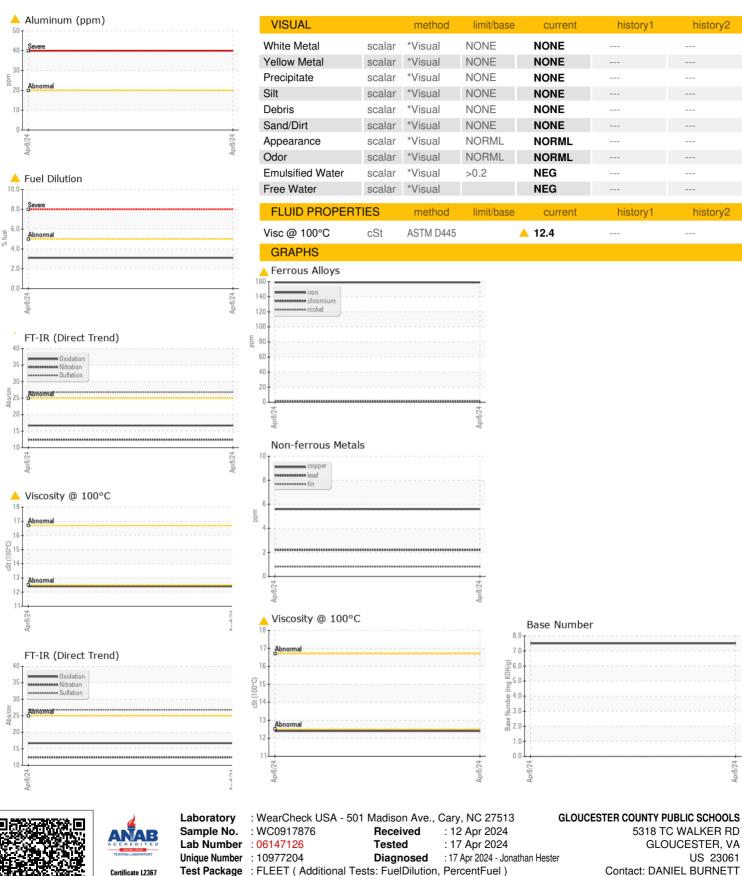
#### Fluid Condition

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

SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0917876		
Sample Date		Client Info		08 Apr 2024		
Machine Age	mls	Client Info		111202		
Oil Age	mls	Client Info		23314		
Oil Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
CONTAMINATION	V	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	<b>159</b>		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>4	2		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	<u> </u>		
Lead	ppm	ASTM D5185m	>40	2		
Copper	ppm	ASTM D5185m	>330	6		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		10		
Manganese	ppm	ASTM D5185m		2		
Magnesium	ppm	ASTM D5185m		33		
Calcium	ppm	ASTM D5185m		2400		
Phosphorus	ppm	ASTM D5185m		956		
Zinc	ppm	ASTM D5185m		1107		
Sulfur	ppm	ASTM D5185m		4247		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8		
Sodium	ppm	ASTM D5185m		5		
Potassium	ppm	ASTM D5185m	>20	27		
Fuel	%	ASTM D3524	>5	<mark>▲</mark> 3.1		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.6		
Nitration	Abs/cm	*ASTM D7624	>20	12.4		
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.8		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.7		
Base Number (BN)	mg KOH/g	ASTM D2896		7.5		
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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.

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

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