

### **FUEL REPORT**

#### Sample Rating Trend

#### **VIS DEBRIS**

# UNC ROCKINGHAM - NURSING HOME BT

Diesel Fuel Fluid DIESEL FUEL No. 2 (--- GAL)

#### DIAGNOSIS

#### A Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.

#### Corrosion

All metal levels are normal indicating no corrosion in the system.

#### Contaminants

Moderate concentration of visible dirt/debris present in the fuel. The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample.

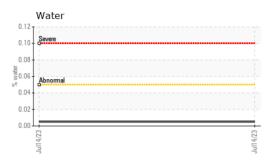
#### **Fuel Condition**

Sulfur value derived by ASTM D5453 method for ULSD validation.

Ju2023								
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		WC0787039				
Sample Date		Client Info		14 Jul 2023				
Machine Age	hrs	Client Info		0				
Sample Status				ABNORMAL				
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2		
Specific Gravity		*ASTM D1298		0.843				
Fuel Color	text	*Visual Screen		Red				
ASTM Color	scalar	*ASTM D1500		L4.5				
Visc @ 40°C	cSt	ASTM D445	4.1	2.46				
Pensky-Martens Flash Point	°C	*PMCC Calculated		58				
SULFUR CONTENT		method	limit/base	current	history1	history2		
Sulfur	ppm	ASTM D5185m		439				
Sulfur (UVF)	ppm	ASTM D5453		370				
DISTILLATION		method	limit/base	current	history1	history2		
Initial Boiling Point	°C	ASTM D86		162				
5% Distillation Point	°C	ASTM D86		191				
10% Distill Point	°C	ASTM D86		201				
15% Distillation Point	°C	ASTM D86		209				
20% Distill Point	°C	ASTM D86		217				
30% Distill Point	°C	ASTM D86		231				
40% Distill Point	°C	ASTM D86		245				
50% Distill Point	°C	ASTM D86		258				
60% Distill Point	°C	ASTM D86		272				
70% Distill Point	°C	ASTM D86		287				
80% Distill Point	°C	ASTM D86		304				
85% Distillation Point	°C	ASTM D86		314				
90% Distill Point	°C	ASTM D86		325				
95% Distillation Point	°C	ASTM D86		342				
Final Boiling Point	°C	ASTM D86		350				
Distillation Residue	%	ASTM D86		1.4				
Distillation Loss	%	ASTM D86		0.7				
IGNITION QUALIT	Υ	method	limit/base	current	history1	history2		
API Gravity		ASTM D7777		36.4				
Cetane Index		ASTM D4737	<40.0	47.1				
CONTAMINANTS		method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	<1.0	0				
Sodium	ppm	ASTM D5185m	<0.1	<1				
Potassium	ppm	ASTM D5185m	<0.1	<1				
Water	%	ASTM D6304	<0.05	0.005				
opm Water	ppm	ASTM D6304	<500	51.2				
	%	*In-House	< 0.50	0.0				
% Gasoline	/0	III IIOuse		•.•				



## **FUEL REPORT**



#### Viscosity @ 40°C



#### Viscosity @ 40°C



HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	<1		
Nickel	ppm	ASTM D5185m	<0.1	0		
Lead	ppm	ASTM D5185m	<0.1	0		
Vanadium	ppm	ASTM D5185m	<0.1	<1		
Iron	ppm	ASTM D5185m	<0.1	0		
Calcium	ppm	ASTM D5185m	<0.1	0		
Magnesium	ppm	ASTM D5185m	<0.1	1		
Phosphorus	ppm	ASTM D5185m	<0.1	0		
Zinc	ppm	ASTM D5185m	<0.1	0		

limit/base

current

method

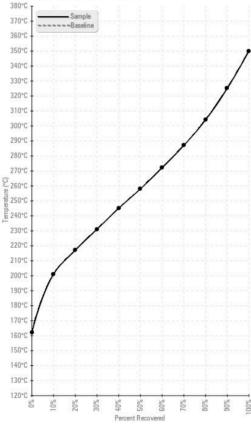
# Color



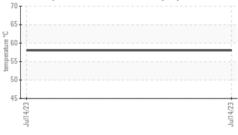
GRAPHS

SAMPLE IMAGES

#### Fuel Distillation Curve



#### Pensky-Martens Flash Point (°C)



history1

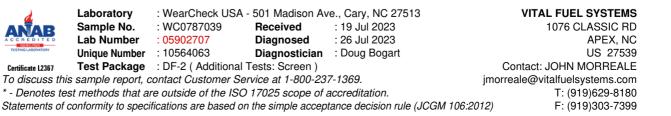
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history2

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Certificate L2367

Laboratory Sample No.

Lab Number

Unique Number : 10564063

: WC0787039

: 05902707

Contact/Location: JOHN MORREALE - VITAPE

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