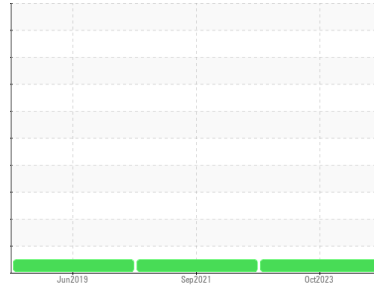




# FUEL REPORT

Sample Rating Trend

**NORMAL**



Area  
**[W119970]**  
 Machine Id  
**KATOLIGHT CAPITAL ASSOCIATE**

Component  
**Diesel Fuel**  
 Fluid  
**No.2 DIESEL FUEL (HIGH-SULPHUR) (--- GAL)**

## DIAGNOSIS

### Recommendation

All laboratory tests indicate that this sample meets specifications for No.2 sulfur diesel fuel.

### Corrosion

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

### Contaminants

The water content is negligible. There is no Bacteria, Yeast and/or Fungus indicated in the sample. There is no indication of any contamination in the fuel.

### Fuel Condition

Sulfur value derived by ASTM D5453 method for ULSD validation.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0756816</b>	WC0616297	WCDF00945
Sample Date	Client Info	<b>04 Oct 2023</b>	24 Sep 2021	14 Jun 2019
Machine Age	hrs	Client Info	<b>0</b>	0
Sample Status			<b>NORMAL</b>	NORMAL

## PHYSICAL PROPERTIES

method	limit/base	current	history1	history2		
ASTM Color	scalar	*ASTM D1500	<b>L4.0</b>	L5.5	L6.0	
Visc @ 40°C	cSt	ASTM D445	3.0	<b>2.6</b>	2.61	2.62

## SULFUR CONTENT

method	limit/base	current	history1	history2		
Sulfur	ppm	ASTM D5185m	500	<b>0</b>	993	1963
Sulfur (UVF)	ppm	ASTM D5453		<b>627</b>	920	1679

## CONTAMINANTS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	<1.0	<b>&lt;1</b>	<1	<1
Sodium	ppm	ASTM D5185m	<0.1	<b>&lt;1</b>	<1	0
Potassium	ppm	ASTM D5185m	<0.1	<b>0</b>	0	6
Water	%	ASTM D6304	<0.05	<b>0.005</b>	0.006	0.008
ppm Water	ppm	ASTM D6304	<500	<b>51.5</b>	60.3	80
% Gasoline	%	*In-House	<0.50	<b>0.0</b>	0.0	0.0
% Biodiesel	%	*In-House	<20.0	<b>0.0</b>	2.0	0.0

## HEAVY METALS

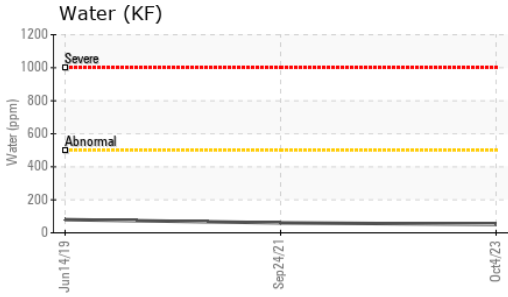
method	limit/base	current	history1	history2		
Aluminum	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0
Lead	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m	<0.1	<b>0</b>	0	<1
Iron	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0
Calcium	ppm	ASTM D5185m	<0.1	<b>0</b>	0	2
Magnesium	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0
Phosphorus	ppm	ASTM D5185m	<0.1	<b>0</b>	2	1
Zinc	ppm	ASTM D5185m	<0.1	<b>0</b>	0	2

## SAMPLE IMAGES

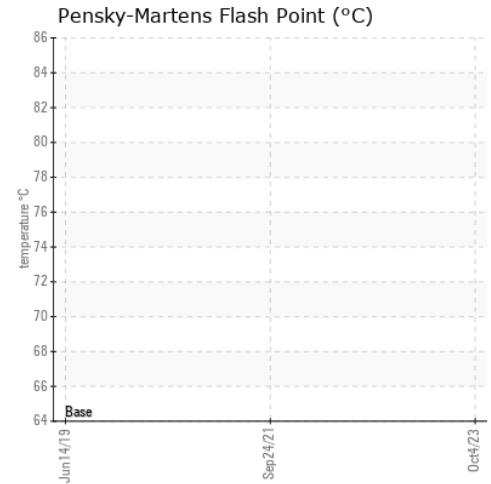
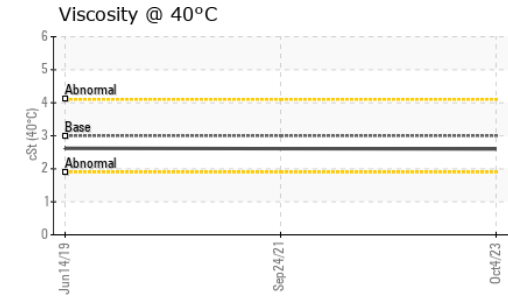
method	limit/base	current	history1	history2
Color				
Bottom				



# FUEL REPORT



## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0756816 **Received** : 16 Oct 2023  
**Lab Number** : 05980089 **Diagnosed** : 23 Oct 2023  
**Unique Number** : 10697384 **Diagnostician** : Doug Bogart  
**Test Package** : DF-5 ( Additional Tests: Screen )

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)

**NATIONAL POWER CORP**  
 4541 PRESLYN DR  
 RALEIGH, NC  
 US 27616  
 Contact: BRANDON RICE  
 brandon.rice@natpow.com  
 T:  
 F: (919)790-9714