

## **FUEL REPORT**

## Area [W117338] 3001354294 - N+E CAROLINAS

Component **Diesel Fuel** 

DIAGNOSIS Recommendation

Corrosion

in the system. Contaminants

**Fuel Condition** 

ULSD specification.

contamination in the fuel.

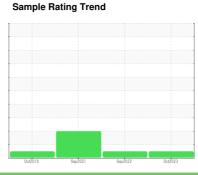
No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)

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

All metal levels are normal indicating no corrosion

Sulfur value derived by ASTM D5453 method for ULSD validation. Sulfur level is acceptable for

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





i) ( GAL)		Oct201	Sep2021	Sep 2022 (	0ct2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0633751	WCDF01770	WCDF03230
Sample Date		Client Info		31 Oct 2023	26 Sep 2022	10 Sep 2021
Machine Age	hrs	Client Info		0	0	0
Sample Status				NORMAL	NORMAL	ATTENTION
PHYSICAL PROF	PERTIES	method	limit/base	current	history1	history2
ASTM Color	scalar	*ASTM D1500		L4.5	L4.5	L5.0
Visc @ 40°C	cSt	ASTM D445	3.0	2.46	2.48	2.73
SULFUR CONTE	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	0	0	<b>▲</b> 154
Sulfur (UVF)	ppm	ASTM D5453		11	8	89
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0	0	0
Sodium	ppm	ASTM D5185m	<0.1	0	0	0
Potassium	ppm	ASTM D5185m	< 0.1	0	0	0
Water	%	ASTM D6304	< 0.05	0.003	0.003	0.007
ppm Water	ppm	ASTM D6304	< 500	30.8	30.3	74.8
% Gasoline	%	*In-House	< 0.50	0.0	0.0	0.0
% Biodiesel	%	*In-House	<20.0	0.0	0.0	0.0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500		4395	
Particles >6µm		ASTM D7647	>640		1782	
Particles >14µm		ASTM D7647	>80		311	
Particles >21µm		ASTM D7647	>20		98	
Particles >38µm		ASTM D7647	>4		1	
Particles >71µm		ASTM D7647	>3		0	
Oil Cleanliness		ISO 4406 (c)	>18/16/13		19/18/15	
HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	< 0.1	0	0	0
Nickel	ppm	ASTM D5185m	<0.1	0	0	<1
Lead	ppm	ASTM D5185m	<0.1	0	0	<1
Vanadium	ppm	ASTM D5185m	<0.1	<1	0	0
Iron	ppm	ASTM D5185m	<0.1	0	0	0

0

0

0

0

Color

SAMPLE IMAGES

Calcium

Zinc

Magnesium

Phosphorus

**Bottom** 

ppm

ppm

ppm

ppm

ASTM D5185m < 0.1

ASTM D5185m < 0.1

< 0.1

< 0.1

ASTM D5185m

ASTM D5185m



0

0

0

Contact/Location: BRANDON RICE - NATRAL

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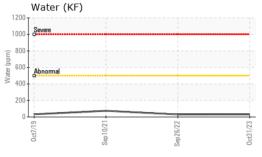
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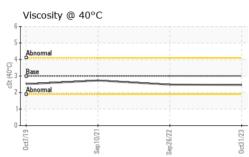
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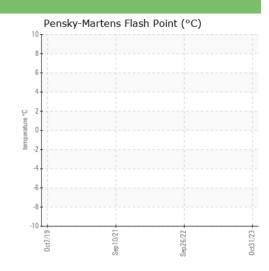
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## **FUEL REPORT**









Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10727853

: WC0633751 : 05999493

To discuss this sample report, contact Customer Service at 1-800-237-1369.

**Test Package**: DF-5 (Additional Tests: Screen)

Received Diagnosed

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 06 Nov 2023 : 15 Nov 2023

Diagnostician : Doug Bogart

4541 PRESLYN DR

Contact: BRANDON RICE brandon.rice@natpow.com T:

**NATIONAL POWER CORP** 

\* - 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)

F: (919)790-9714

RALEIGH, NC

US 27616