

## **FUEL REPORT**

Sample Rating Trend



#### Area [W80306] Machine Id 95130501274 Component

Diesel Fuel Fluid DIESEL FUEL No. 1 (--- GAL)

#### DIAGNOSIS

#### Recommendation

All laboratory tests indicate that this sample meets specifications for No.2 ultra-low-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 or fungus (yeast and/or mold) indicated in the sample. There is no indication of any contamination in the fuel.

### **Fuel Condition**

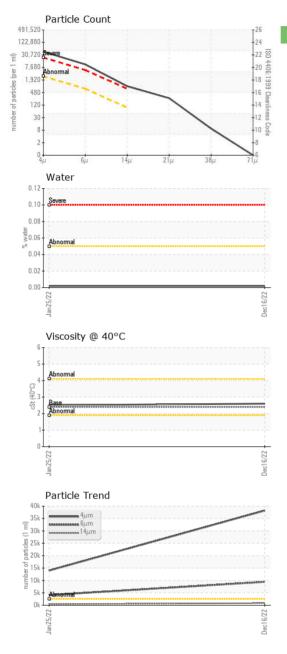
Sulfur value derived by ASTM D5453 method for ULSD validation. Sulfur level is acceptable for ULSD specification.

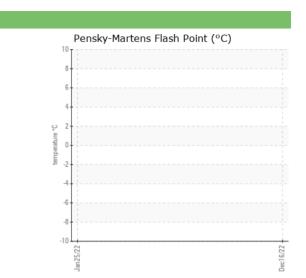
			Jan2022	Dec2022		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0633676	WC0633704	
Sample Date		Client Info		16 Dec 2022	25 Jan 2022	
Machine Age	hrs	Client Info		0	0	
Sample Status				NORMAL	NORMAL	
PHYSICAL PRO	PERTIES	method	limit/base	current	history1	history2
ASTM Color	scalar	*ASTM D1500		L4.5	L5.5	
Visc @ 40°C	cSt	ASTM D445	2.4	2.6	2.51	
SULFUR CONTE	ENT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		3	7	
Sulfur (UVF)	ppm	ASTM D5453		8	10	
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0	0	
Sodium	ppm	ASTM D5185m	<0.1	0	0	
Potassium	ppm	ASTM D5185m	<0.1	<1	0	
Water	%	ASTM D6304	< 0.05	0.002	0.002	
ppm Water	ppm	ASTM D6304	<500	17.8	17.5	
% Gasoline	%	*In-House	<0.50	0.0	0.0	
% Biodiesel	%	*In-House	<20.0	2.0	1.8	
FLUID CLEANLI	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	38194	13982	
Particles >6µm		ASTM D7647	>640	9441	4083	
Particles >14µm		ASTM D7647	>80	845	449	
Particles >21µm		ASTM D7647	>20	228	147	
Particles >38µm		ASTM D7647	>4	8	10	
Particles >71µm		ASTM D7647	>3	0	2	
Oil Cleanliness		ISO 4406 (c)	>18/16/13	22/20/17	21/19/16	
HEAVY METALS	6	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	1	<1	
Nickel	ppm	ASTM D5185m	<0.1	0	0	
Lead	ppm	ASTM D5185m	<0.1	0	0	
Vanadium	ppm	ASTM D5185m	<0.1	0	0	
Iron	ppm	ASTM D5185m	<0.1	<1	0	
Calcium	ppm	ASTM D5185m	<0.1	<1	0	
Magnesium	ppm	ASTM D5185m	<0.1	0	0	
Phosphorus	ppm	ASTM D5185m		4	4	
Zinc	ppm	ASTM D5185m	<0.1	1	0	
SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Color						no image
Bottom						no image
:50:42) Rev: 1			Co	ntact/Location:	ANDREW RAN	DALL - NATRA

Report Id: NATRAL [WUSCAR] 05746811 (Generated: 09/13/2023 10:50:42) Rev: 1



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NATIONAL POWER CORP : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Laboratory Sample No. : WC0633676 Received : 23 Jan 2023 4541 PRESLYN DR Lab Number : 05746811 Diagnosed : 30 Jan 2023 RALEIGH, NC Unique Number : 10306415 Diagnostician : Doug Bogart US 27616 Test Package : DF-5 (Additional Tests: Screen) Contact: ANDREW RANDALL Certificate L2367 andrew.randall@natpow.com 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. T: (919)790-1672 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (919)790-9714

Contact/Location: ANDREW RANDALL - NATRAL