

# **FUEL REPORT**

## Sample Rating Trend



# [PMO2H1674160] **B160925929** Component

**Diesel Fuel** NOT GIVEN (--- GAL)

### DIAGNOSIS

#### Recommendation

We recommend that you drain the fuel from the component if this has not already been done.

# Corrosion

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

### Contaminants

There is a high amount of particulates present in the fuel. The water content is negligible.

#### Fuel Condition

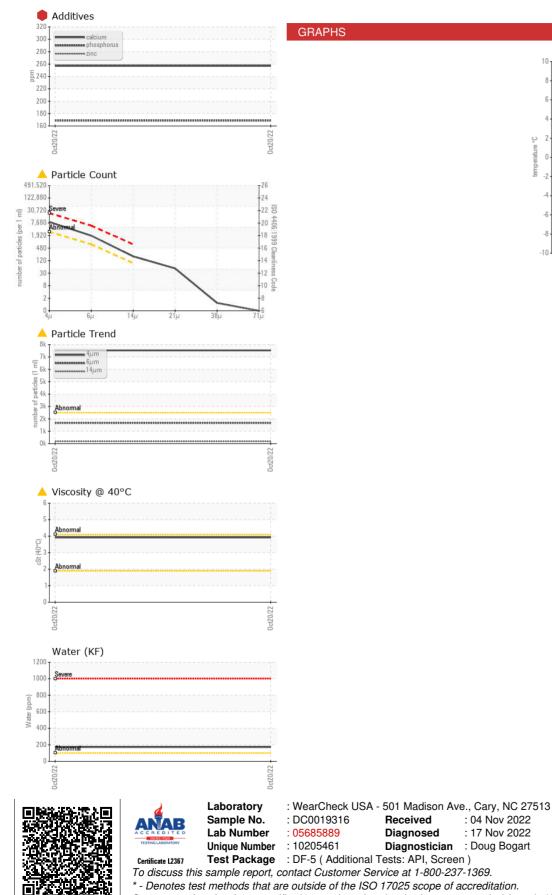
The fuel viscosity is higher than normal. Additive levels indicate the addition of oil. The fuel is no longer serviceable. Sulfur value derived by ASTM D5453 method for ULSD validation.

				0012022		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		DC0019316		
Sample Date		Client Info		20 Oct 2022		
Machine Age	hrs	Client Info		270		
Sample Status				SEVERE		
PHYSICAL PROP	PERTIES	method	limit/base	current	history1	history2
ASTM Color	scalar	*ASTM D1500	in the babb	L5.5		
Visc @ 40°C	cSt	ASTM D1500 ASTM D445		A 3.92		
SULFUR CONTE	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		337		
Sulfur (UVF)	ppm	ASTM D5453		395		
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<1		
Sodium	ppm	ASTM D5185m	<0.1	0		
Potassium	ppm	ASTM D5185m	<0.1	0		
Water	%	ASTM D6304	< 0.05	0.017		
opm Water	ppm	ASTM D6304	<500	172.6		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	A 7527		
Particles >6µm		ASTM D7647	>640	<u> </u>		
Particles >14µm		ASTM D7647	>80	▲ 169		
Particles >21µm		ASTM D7647	>20	<u> </u>		
Particles >38µm		ASTM D7647	>4	1		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<b>20/18/15</b>		
HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	0		
Nickel	ppm	ASTM D5185m	<0.1	0		
Lead	ppm	ASTM D5185m	<0.1	3		
Vanadium	ppm	ASTM D5185m	<0.1	0		
ron	ppm	ASTM D5185m	<0.1	<1		
Calcium	ppm	ASTM D5185m	<0.1	<b>e</b> 257		
Magnesium	ppm	ASTM D5185m	<0.1	59		
Phosphorus	ppm	ASTM D5185m	<0.1	🛑 169		
Zinc	ppm	ASTM D5185m	<0.1	<b>e</b> 168		
SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image
21:36) Rev: 1				Contact/Locati	on: BRANDON	RICE - NATRAL

Report Id: NATRAL [WUSCAR] 05685889 (Generated: 10/10/2023 12



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

Received

Diagnosed

: 04 Nov 2022

Pensky-Martens Flash Point (°C) 10 ç 0 -7 -10 0ct20/22

: 17 Nov 2022 RALEIGH, NC Diagnostician : Doug Bogart US 27616 Contact: BRANDON RICE brandon.rice@natpow.com T: F: (919)790-9714

Contact/Location: BRANDON RICE - NATRAL

NATIONAL POWER CORP

4541 PRESLYN DR