

FUEL REPORT

Sample Rating Trend

ISO

Machine Id

3004188991 3004188991

Diesel Fuel

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (

DIAGNOSIS

Recommendation

We advise that you filter this fluid before use. 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 in the system.

Contaminants

There is a high amount of particulates present in the fuel. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. The water content is negligible.

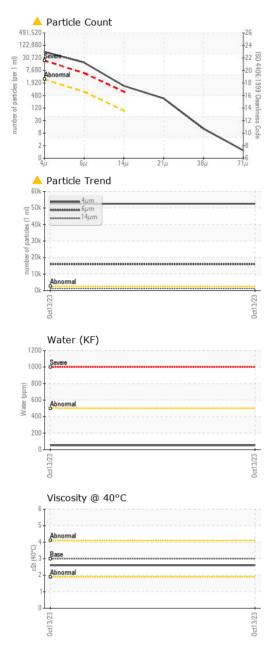
Fuel Condition

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

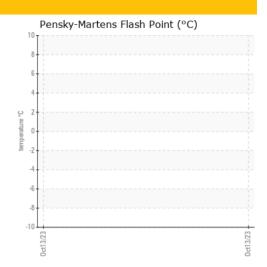
R) (GAL)				Oct2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC06210640		
Sample Date		Client Info		13 Oct 2023		
Machine Age	hrs	Client Info		0		
Sample Status				ABNORMAL		
PHYSICAL PROF	PERTIES	method	limit/base	current	history1	history2
ASTM Color	scalar	*ASTM D1500		L4.0		
Visc @ 40°C	cSt	ASTM D445	3.0	2.6		
SULFUR CONTE	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	0		
Sulfur (UVF)	ppm	ASTM D5453		9		
CONTAMINANTS	3	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	0		
Water	%	ASTM D6304	< 0.05	0.005		
ppm Water	ppm	ASTM D6304	<500	53		
% Gasoline	%	*In-House	< 0.50	0.0		
% Biodiesel	%	*In-House	<20.0	3.6		
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>2500	<u>^</u> 52560		
Particles >6µm		ASTM D7647	>640	<u> 15955</u>		
Particles >14µm		ASTM D7647	>80	▲ 1221 ▲ 202		
Particles >21μm Particles >38μm		ASTM D7647 ASTM D7647	>20 >4	△ 308 △ 11		
Particles >30µm		ASTM D7647	>4	1		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	△ 23/21/17		
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	0		
Vanadium	ppm	ASTM D5185m	<0.1	0		
Iron	ppm	ASTM D5185m	<0.1	0		
Calcium	ppm	ASTM D5185m	<0.1	0		
Magnesium	ppm	ASTM D5185m	<0.1	0		
Phosphorus	ppm	ASTM D5185m	<0.1	0		
Zinc	ppm	ASTM D5185m	<0.1	0		
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image
:45:13) Hev: 3				Contact/Locati	on: Brandon Da	niels - NA I HAL



FUEL REPORT



GRAPHS





Laboratory

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Lab Number : 06210640

: WC06210640 Unique Number : 11083504

Received **Tested** Diagnosed

: 14 Jun 2024 : 20 Jun 2024 : 20 Jun 2024 - Doug Bogart

RALEIGH, NC US 27616 Contact: Brandon Daniels

NATIONAL POWER CORP

4541 PRESLYN DR

Test Package: DF-5 (Additional Tests: PrtCount, Screen) Certificate 12367 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.

Brandon.Daniels@natpow.com

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Report Id: NATRAL [WUSCAR] 06210640 (Generated: 06/21/2024 11:45:13) Rev: 3

Contact/Location: Brandon Daniels - NATRAL

F: (919)790-9714

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