

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

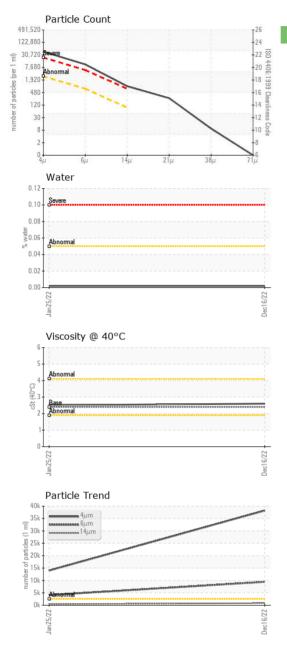
Sulfur value derived by ASTM D5453 method for ULSD validation. Sulfur level is acceptable for ULSD specification.

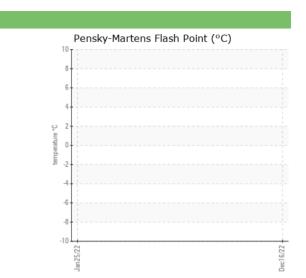
			Jan2022	Dec2022		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0633676	WC0633704	
Sample Date		Client Info		16 Dec 2022	25 Jan 2022	
Machine Age	hrs	Client Info		0	0	
Sample Status				NORMAL	NORMAL	
PHYSICAL PRO	PERTIES	method	limit/base	current	history1	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