



FUEL REPORT

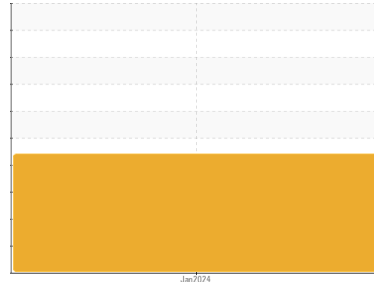
Sample Rating Trend

WATER



Area
[W136173]
Machine Id
USID 82072

Component
Diesel Fuel
Fluid
{not provided} (--- 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 light concentration of water present in the fuel. Elemental level of silicon (Si) above normal. Tests confirm the presence of fuel in the fuel. There is no bacteria or fungus (yeast and/or mold) indicated in the sample.

Fuel Condition

The fuel is no longer serviceable due to the presence of contaminants. Sulfur value derived by ASTM D5453 method for ULSD validation.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0797367	---	---
Sample Date	Client Info	08 Jan 2024	---	---
Machine Age	hrs	Client Info	0	---
Sample Status			ABNORMAL	---

PHYSICAL PROPERTIES

method	limit/base	current	history1	history2
ASTM Color	scalar	*ASTM D1500	L4.0	---
Visc @ 40°C	cSt	ASTM D445	2.46	---

SULFUR CONTENT

method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	23	---
Sulfur (UVF)	ppm	ASTM D5453	22	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	▲ 12
Sodium	ppm	ASTM D5185m	<0.1	<1
Potassium	ppm	ASTM D5185m	<0.1	0
Water	%	ASTM D6304	<0.05	▲ 0.782
ppm Water	ppm	ASTM D6304	<500	▲ 7830
% Gasoline	%	*In-House	<0.50	▲ 4.2
% Biodiesel	%	*In-House	<20.0	2.6

HEAVY METALS

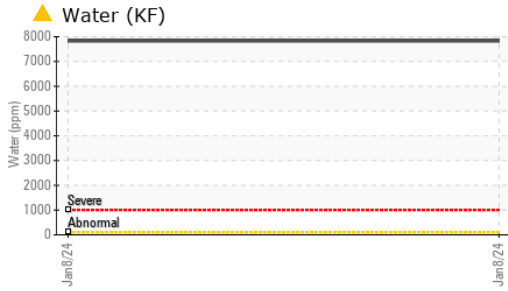
method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	0
Nickel	ppm	ASTM D5185m	<0.1	0
Lead	ppm	ASTM D5185m	<0.1	0
Vanadium	ppm	ASTM D5185m	<0.1	<1
Iron	ppm	ASTM D5185m	<0.1	0
Calcium	ppm	ASTM D5185m	<0.1	0
Magnesium	ppm	ASTM D5185m	<0.1	0
Phosphorus	ppm	ASTM D5185m	<0.1	4
Zinc	ppm	ASTM D5185m	<0.1	0

SAMPLE IMAGES

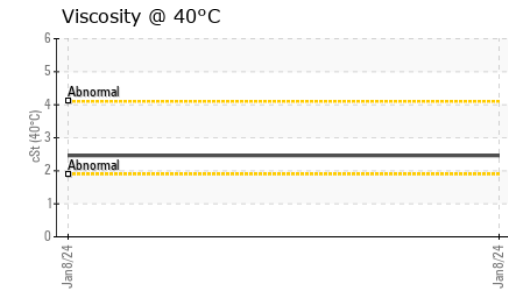
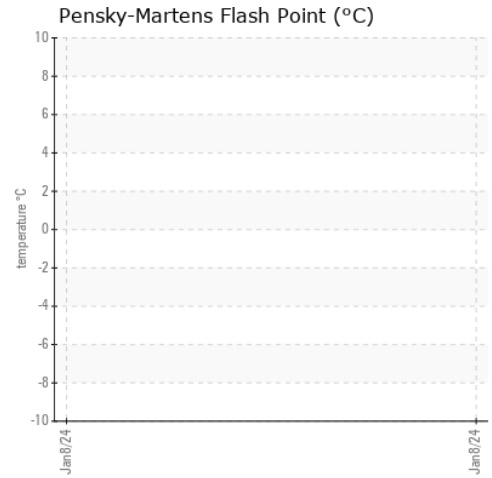
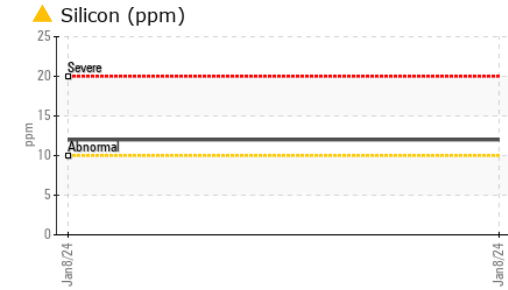
method	limit/base	current	history1	history2
Color			no image	no image
Bottom			no image	no image



FUEL REPORT



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0797367 **Received** : 12 Jan 2024
Lab Number : 06060528 **Diagnosed** : 01 Feb 2024
Unique Number : 10831910 **Diagnostician** : Doug Bogart
Test Package : DF-5 (Additional Tests: Screen)

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.

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

NATIONAL POWER CORP
 4541 PRESLYN DR
 RALEIGH, NC
 US 27616
 Contact: BRANDON RICE
 brandon.rice@natpow.com
 T:
 F: (919)790-9714