



FUEL REPORT

Sample Rating Trend

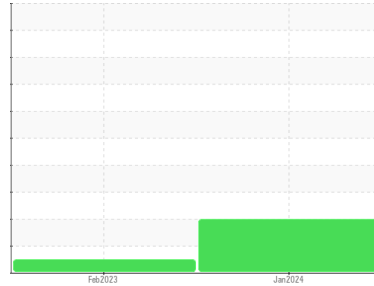
ISO



Machine Id
NYU 240 E 38 ST GENERATOR BASE

Component
Diesel Fuel

Fluid
{not provided} (250 GAL)



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.

Corrosion

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.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC06073459	WC05761163	---
Sample Date	Client Info	29 Jan 2024	07 Feb 2023	---
Machine Age	hrs	0	0	---
Sample Status		ATTENTION	NORMAL	---

PHYSICAL PROPERTIES

method	limit/base	current	history1	history2
Specific Gravity	*ASTM D1298	0.842	0.841	---
Fuel Color	text	Red	Red	---
ASTM Color	scalar	L4.0	L4.0	---
Visc @ 40°C	cSt	2.46	2.56	---

SULFUR CONTENT

method	limit/base	current	history1	history2
Sulfur	ppm	0	0	---
Sulfur (UVF)	ppm	7	8	---

DISTILLATION

method	limit/base	current	history1	history2
Initial Boiling Point	°C	168	164	---
5% Distillation Point	°C	191	189	---
10% Distill Point	°C	201	201	---
15% Distillation Point	°C	210	211	---
20% Distill Point	°C	218	220	---
30% Distill Point	°C	234	236	---
40% Distill Point	°C	249	251	---
50% Distill Point	°C	265	267	---
60% Distill Point	°C	281	283	---
70% Distill Point	°C	297	298	---
80% Distill Point	°C	313	314	---
85% Distillation Point	°C	321	322	---
90% Distill Point	°C	331	330	---
95% Distillation Point	°C	344	342	---
Final Boiling Point	°C	352	350	---
Distillation Residue	%	1.4	1.4	---
Distillation Loss	%	0.8	0.7	---

IGNITION QUALITY

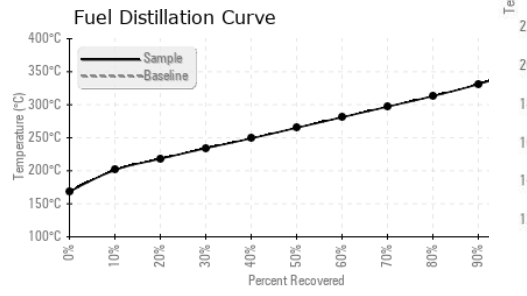
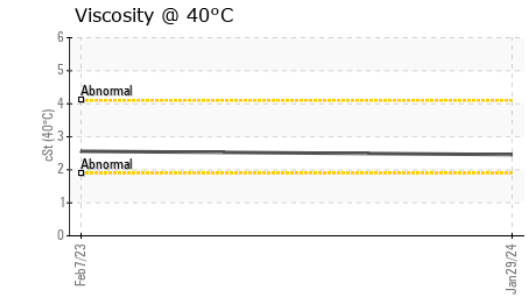
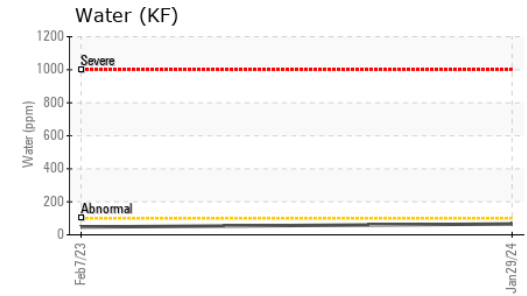
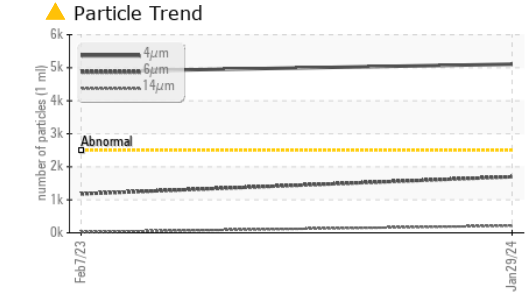
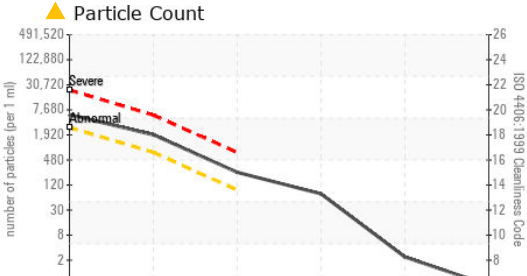
method	limit/base	current	history1	history2
API Gravity	ASTM D7777	36.6	36.8	---
Cetane Index	ASTM D4737	48.7	49.1	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	0	0	---
Sodium	ppm	0	0	---
Potassium	ppm	0	<1	---
Water	%	0.006	0.004	---
ppm Water	ppm	66	47.3	---
% Gasoline	%	0.0	0.0	---
% Biodiesel	%	6.5	6.9	---



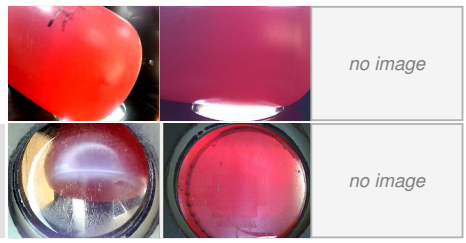
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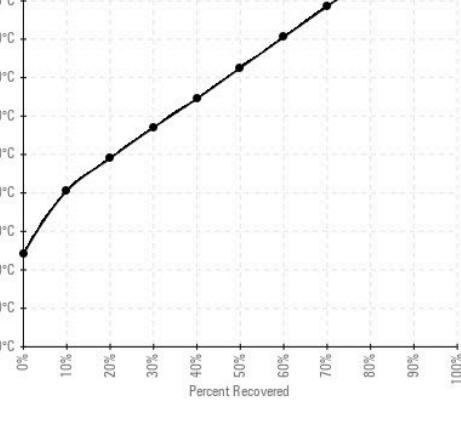
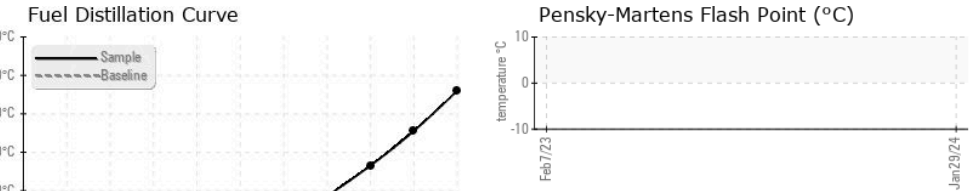
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	▲ 5107	4879	---
Particles >6µm	ASTM D7647	>640	▲ 1697	1180	---
Particles >14µm	ASTM D7647	>80	▲ 214	25	---
Particles >21µm	ASTM D7647	>20	▲ 65	2	---
Particles >38µm	ASTM D7647	>4	2	0	---
Particles >71µm	ASTM D7647	>3	0	0	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	▲ 20/18/15	19/17/12	---

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

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC06073459 **Received** : 30 Jan 2024
Lab Number : 06073459 **Diagnosed** : 06 Feb 2024
Unique Number : 10850136 **Diagnostician** : Doug Bogart
Test Package : DF-1 (Additional Tests: Screen)

ISP FUEL SYSTEMS
 9 CHRIS COURT, SUITE F
 DAYTON, NJ
 US 08810
 Contact: AJ THOMPSON
 aj@ispfuelsystems.com
 T:
 F:

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)