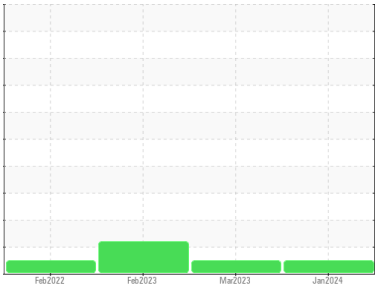
FUEL REPORT

Sample Rating Trend



NORMAL

Machine Id
NYU KIMMEL PARKING GARAGE
Component
Diesel Fuel
Fluid
No.2 DIESEL FUEL (ULTRALOW SULPHUR) (25000 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
There is no bacteria or fungus (yeast and/or mold) indicated in the sample. The water content is negligible. There is no indication of any contamination in the fuel. The amount and size of particulates present in the system are acceptable.

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		**WC06073449**	WC05810159	WC05761179
Sample Date		Client Info		**29 Jan 2024**	20 Mar 2023	07 Feb 2023
Machine Age	hrs	Client Info		**0**	0	0
Sample Status				**NORMAL**	NORMAL	ATTENTION

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298	0.839	**0.840**	0.841	0.841
Fuel Color	text	*Visual Screen	Yllow	**Red**	Red	Red
ASTM Color	scalar	*ASTM D1500		**L4.0**	L5.0	L4.0
Visc @ 40°C	cSt	ASTM D445	3.0	**2.42**	2.56	2.57

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	**0**	0	0
Sulfur (UVF)	ppm	ASTM D5453		**6**	7	7

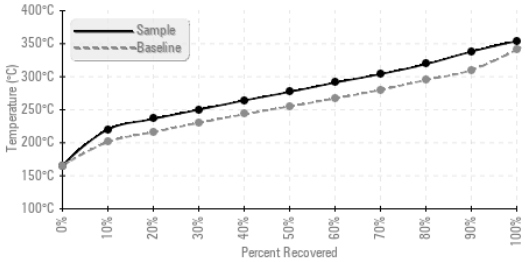
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	**165**	162	157
5% Distillation Point	°C	ASTM D86		**207**	188	185
10% Distill Point	°C	ASTM D86	201	**220**	200	199
15% Distillation Point	°C	ASTM D86		**228**	211	210
20% Distill Point	°C	ASTM D86	216	**236**	219	218
30% Distill Point	°C	ASTM D86	230	**250**	235	236
40% Distill Point	°C	ASTM D86	243	**264**	251	251
50% Distill Point	°C	ASTM D86	255	**277**	267	266
60% Distill Point	°C	ASTM D86	267	**291**	282	282
70% Distill Point	°C	ASTM D86	280	**304**	298	297
80% Distill Point	°C	ASTM D86	295	**319**	313	313
85% Distillation Point	°C	ASTM D86		**328**	321	321
90% Distill Point	°C	ASTM D86	310	**338**	330	330
95% Distillation Point	°C	ASTM D86		**350**	342	341
Final Boiling Point	°C	ASTM D86	341	**354**	350	350
Distillation Residue	%	ASTM D86	3.0	**1.4**	1.4	1.4
Distillation Loss	%	ASTM D86	3.0	**3.4**	0.6	0.5

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	**37.0**	36.8	36.8
Cetane Index		ASTM D4737	<40.0	**53.0**	49.0	48.9

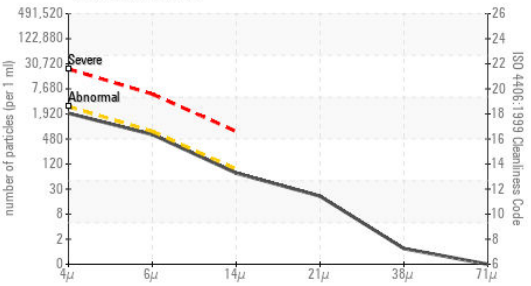
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	**0**	0	0
Sodium	ppm	ASTM D5185m	<0.1	**0**	0	0
Potassium	ppm	ASTM D5185m	<0.1	**0**	<1	1
Water	%	ASTM D6304	<0.05	**0.007**	0.004	0.003
ppm Water	ppm	ASTM D6304	<500	**77**	44.8	35.5
% Gasoline	%	*In-House	<0.50	**0.0**	0.0	0.0
% Biodiesel	%	*In-House	<20.0	**3.7**	6.6	7.1

FUEL REPORT

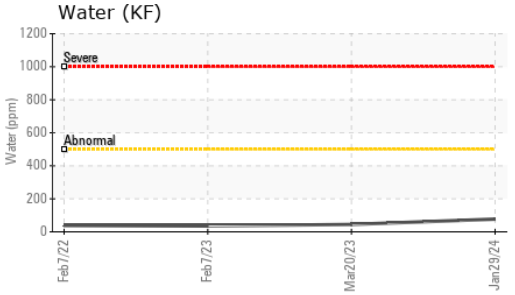
Fuel Distillation Curve



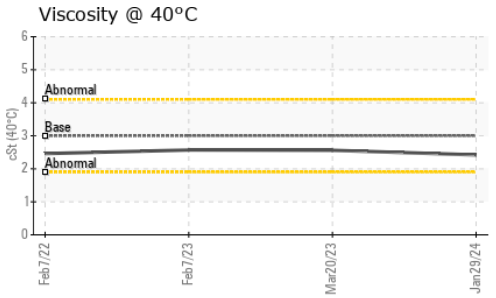
Particle Count



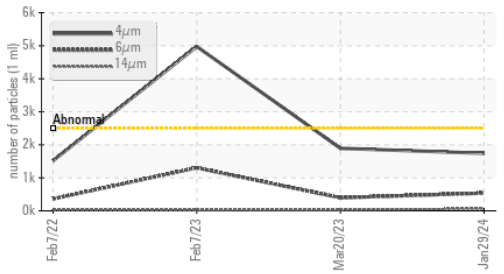
Water (KF)



Viscosity @ 40°C

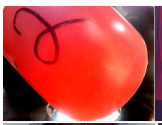
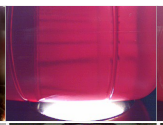
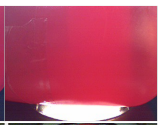
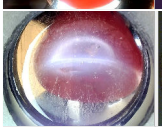
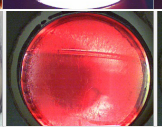
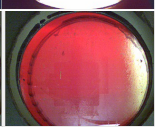


Particle Trend



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	**1741**	1892	▲ 4977
Particles >6µm	ASTM D7647	>640	**538**	394	▲ 1303
Particles >14µm	ASTM D7647	>80	**64**	25	21
Particles >21µm	ASTM D7647	>20	**18**	7	2
Particles >38µm	ASTM D7647	>4	**1**	0	0
Particles >71µm	ASTM D7647	>3	**0**	0	0
Oil Cleanliness	ISO 4406 (c)	>18/16/13	**18/16/13**	18/16/12	▲ 19/18/12

HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	**0**	0	0
Nickel	ppm	ASTM D5185m	<0.1	**0**	0	0
Lead	ppm	ASTM D5185m	<0.1	**0**	0	0
Vanadium	ppm	ASTM D5185m	<0.1	**0**	0	0
Iron	ppm	ASTM D5185m	<0.1	**0**	0	0
Calcium	ppm	ASTM D5185m	<0.1	**0**	0	0
Magnesium	ppm	ASTM D5185m	<0.1	**0**	0	0
Phosphorus	ppm	ASTM D5185m	<0.1	**0**	4	9
Zinc	ppm	ASTM D5185m	<0.1	**0**	0	0

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC06073449 **Recieved** : 30 Jan 2024
Lab Number : 06073449 **Diagnosed** : 06 Feb 2024
Unique Number : 10850126 **Diagnostician** : Doug Bogart
Test Package : DF-1 (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)

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