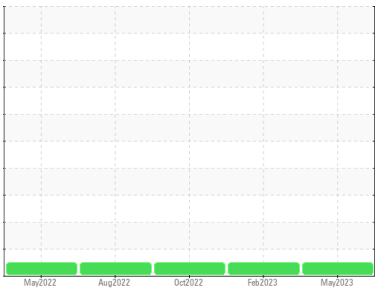
FUEL REPORT

Sample Rating Trend



NORMAL

Area
MT/VA/Hospital/NOLA
Machine Id
VA HOSPITAL NEW ORLEANS TANK 3
Component
Diesel Fuel
Fluid
{not provided} (40000 QTS)

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. The amount and size of particulates present in the system are acceptable. 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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC05855834**	WC05786665	WC05707578
Sample Date		Client Info		**17 May 2023**	07 Feb 2023	27 Oct 2022
Machine Age	hrs	Client Info		**0**	0	0
Sample Status				**NORMAL**	NORMAL	NORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		**0.837**	0.837	0.837
Fuel Color	text	*Visual Screen		**Red**	Red	Red
ASTM Color	scalar	*ASTM D1500		**L4.5**	L4.5	L4.5
Visc @ 40°C	cSt	ASTM D445		**2.44**	2.36	2.42
Pensky-Martens Flash Point	°C	*PMCC Calculated		**60**	---	61

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		**0**	2	0
Sulfur (UVF)	ppm	ASTM D5453		**10**	6	5

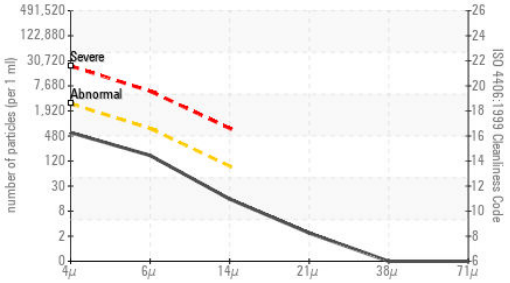
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		**167**	167	167
5% Distillation Point	°C	ASTM D86		**190**	191	192
10% Distill Point	°C	ASTM D86		**199**	200	200
15% Distillation Point	°C	ASTM D86		**208**	208	209
20% Distill Point	°C	ASTM D86		**215**	216	216
30% Distill Point	°C	ASTM D86		**228**	230	230
40% Distill Point	°C	ASTM D86		**242**	243	243
50% Distill Point	°C	ASTM D86		**255**	257	256
60% Distill Point	°C	ASTM D86		**270**	271	270
70% Distill Point	°C	ASTM D86		**286**	286	285
80% Distill Point	°C	ASTM D86		**302**	303	302
85% Distillation Point	°C	ASTM D86		**312**	312	311
90% Distill Point	°C	ASTM D86		**322**	323	322
95% Distillation Point	°C	ASTM D86		**338**	338	336
Final Boiling Point	°C	ASTM D86		**347**	348	345
Distillation Residue	%	ASTM D86		**1.4**	1.4	1.4
Distillation Loss	%	ASTM D86		**0.7**	0.7	0.8

IGNITION QUALITY	method	limit/base	current	history1	history2
API Gravity	ASTM D7777		**37.6**	37.6	37.6
Cetane Index	ASTM D4737	<40.0	**48.7**	49.1	48.8

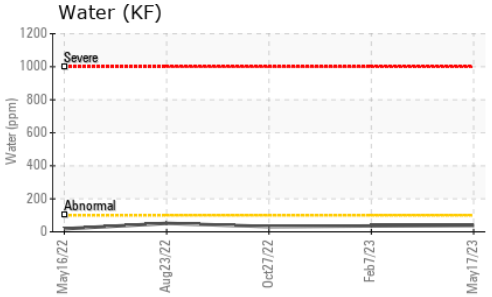
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	**0**	<1	0
Sodium	ppm	ASTM D5185m	<0.1	**0**	<1	0
Potassium	ppm	ASTM D5185m	<0.1	**<1**	0	<1
Water	%	ASTM D6304	<0.05	**0.003**	0.003	0.003
ppm Water	ppm	ASTM D6304	<500	**39.0**	35.7	31.7
% Gasoline	%	*In-House	<0.50	**0.0**	0.0	0.0
% Biodiesel	%	*In-House	<20.0	**0.0**	0.0	0.0

FUEL REPORT

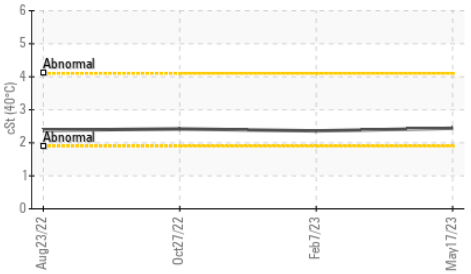
Particle Count



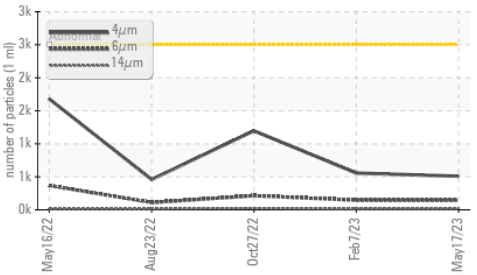
Water (KF)



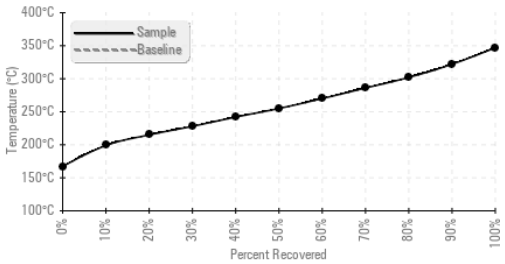
Viscosity @ 40°C



Particle Trend

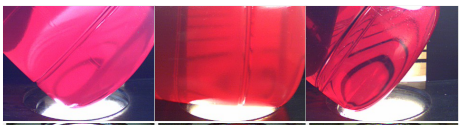
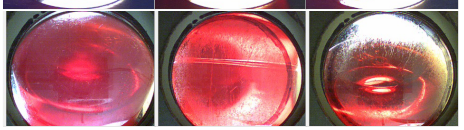


Fuel Distillation Curve



FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	**509**	557	1197
Particles >6µm		ASTM D7647	>640	**144**	145	214
Particles >14µm		ASTM D7647	>80	**13**	14	23
Particles >21µm		ASTM D7647	>20	**2**	4	10
Particles >38µm		ASTM D7647	>4	**0**	1	3
Particles >71µm		ASTM D7647	>3	**0**	0	1
Oil Cleanliness		ISO 4406 (c)	>18/16/13	**16/14/11**	16/14/11	17/15/12

HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	**0**	0	0
Nickel	ppm	ASTM D5185m	<0.1	**<1**	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	**<1**	0	0
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. : WC05855834 **Received** : 24 May 2023
Lab Number : 05855834 **Tested** : 05 Jun 2023
Unique Number : 10485189 **Diagnosed** : 05 Jun 2023 - Doug Bogart
Test Package : DF-2 (Additional Tests: Fuel, 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:

Report Id: ISPDAY [WUSCAR] 05855834 (Generated: 06/06/2024 10:21:18) Rev: 1

Contact/Location: AJ THOMPSON - ISPDAY