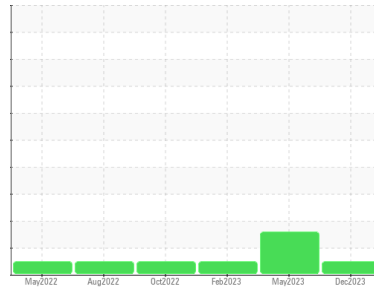




FUEL REPORT

Sample Rating Trend



NORMAL



Area
MT/VA/Hospital/NOLA
 Machine Id
VA HOSPITAL NEW ORLEANS TANK 2

Component
Diesel Fuel
 Fluid
{not provided} (--- 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

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			WC06073461	WC05855833	WC05786667
Sample Date	Client Info			13 Dec 2023	17 May 2023	07 Feb 2023
Machine Age	hrs	Client Info		0	0	0
Sample Status				NORMAL	ABNORMAL	NORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		0.841	0.831	0.831
Fuel Color	text	*Visual Screen		Red	Red	Red
ASTM Color	scalar	*ASTM D1500		L4.0	L4.5	L4.5
Visc @ 40°C	cSt	ASTM D445		2.36	2.36	2.3

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		0	0	<1
Sulfur (UVF)	ppm	ASTM D5453		5	6	5

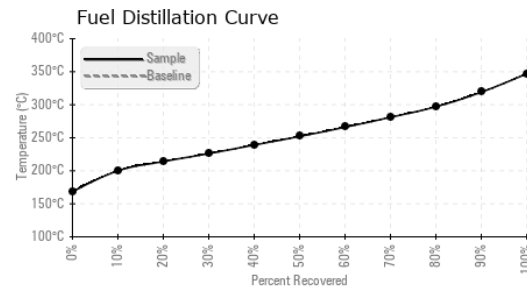
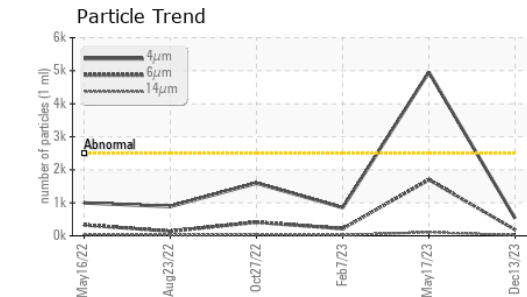
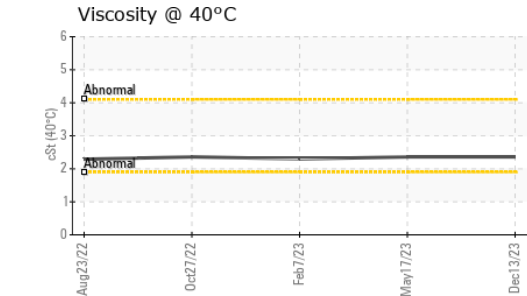
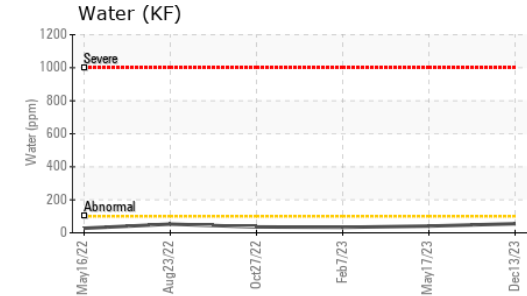
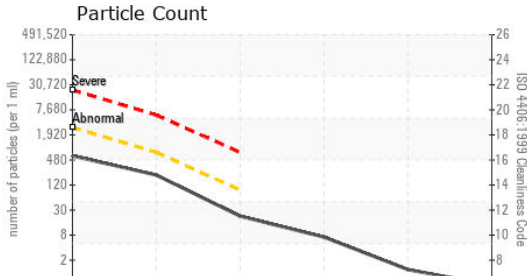
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		168	166	172
5% Distillation Point	°C	ASTM D86		192	192	193
10% Distill Point	°C	ASTM D86		200	200	202
15% Distillation Point	°C	ASTM D86		207	207	208
20% Distill Point	°C	ASTM D86		214	213	215
30% Distill Point	°C	ASTM D86		226	225	228
40% Distill Point	°C	ASTM D86		239	238	241
50% Distill Point	°C	ASTM D86		252	252	254
60% Distill Point	°C	ASTM D86		266	266	268
70% Distill Point	°C	ASTM D86		281	281	282
80% Distill Point	°C	ASTM D86		297	298	299
85% Distillation Point	°C	ASTM D86		307	308	308
90% Distill Point	°C	ASTM D86		319	320	320
95% Distillation Point	°C	ASTM D86		337	340	338
Final Boiling Point	°C	ASTM D86		347	348	349
Distillation Residue	%	ASTM D86		1.4	1.4	1.4
Distillation Loss	%	ASTM D86		0.6	1.2	0.8

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		36.8	38.8	38.8
Cetane Index		ASTM D4737	<40.0	46.5	50.1	50.7

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0	0	<1
Sodium	ppm	ASTM D5185m	<0.1	0	0	<1
Potassium	ppm	ASTM D5185m	<0.1	0	<1	0
Water	%	ASTM D6304	<0.05	0.005	0.004	0.003
ppm Water	ppm	ASTM D6304	<500	55	40.9	33.5
% Gasoline	%	*In-House	<0.50	0.0	0.0	0.0
% Biodiesel	%	*In-House	<20.0	0.0	0.0	0.0



FUEL REPORT



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	529	▲ 4956	852
Particles >6µm	ASTM D7647	>640	184	▲ 1701	217
Particles >14µm	ASTM D7647	>80	19	▲ 108	22
Particles >21µm	ASTM D7647	>20	6	18	5
Particles >38µm	ASTM D7647	>4	1	2	1
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>18/16/13	16/15/11	▲ 19/18/14	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	0	<1	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	<1	0
Zinc	ppm	ASTM D5185m <0.1	0	0	0

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC06073461 **Received** : 30 Jan 2024
Lab Number : **06073461** **Diagnosed** : 06 Feb 2024
Unique Number : 10850138 **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:

Certificate L2367
 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)