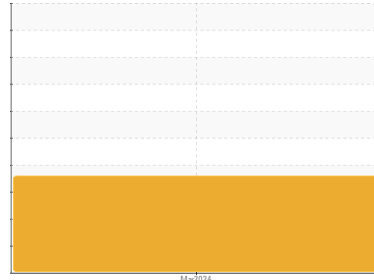




FUEL REPORT

Sample Rating Trend



CONTAMINANT



Area

Lewis Gale Hospital Montgomery

[Lewis Gale Hospital Montgomery] MAIN

Machine Id

Component
Diesel Fuel

Fluid

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (8000 GAL)

DIAGNOSIS

Recommendation

We advise that you follow the water drain-off procedure for this component. We recommend you service and check the fuel filters for mucous-like deposits. Check with fuel supplier for biocides available to destroy the microorganisms in the fuel system.

Corrosion

All metal levels are normal indicating no corrosion in the system.

Contaminants

Free water present. There is a moderate concentration of Bacteria, Yeast and/or Fungus present in the sample. The amount and size of particulates present in the system are acceptable.

Fuel Condition

Sulfur value derived by ASTM D5453 method for ULSD validation.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC06139455	---	---
Sample Date	Client Info	21 Mar 2024	---	---
Machine Age	hrs Client Info	0	---	---
Sample Status		ABNORMAL	---	---

PHYSICAL PROPERTIES

method	limit/base	current	history1	history2
Fuel Color	text *Visual Screen	Yellow	Red	---
ASTM Color	scalar *ASTM D1500		L4.5	---
Visc @ 40°C	cSt ASTM D445	3.0	2.53	---
Pensky-Martens Flash Point	°C *PMCC Calculated	52	62.7	---

SULFUR CONTENT

method	limit/base	current	history1	history2
Sulfur	ppm ASTM D5185m	10	500	---
Sulfur (UVF)	ppm ASTM D5453		419	---

DISTILLATION

method	limit/base	current	history1	history2
Initial Boiling Point	°C ASTM D86	165	174	---
5% Distillation Point	°C ASTM D86		197	---
10% Distill Point	°C ASTM D86	201	207	---
15% Distillation Point	°C ASTM D86		215	---
20% Distill Point	°C ASTM D86	216	223	---
30% Distill Point	°C ASTM D86	230	237	---
40% Distill Point	°C ASTM D86	243	250	---
50% Distill Point	°C ASTM D86	255	263	---
60% Distill Point	°C ASTM D86	267	276	---
70% Distill Point	°C ASTM D86	280	289	---
80% Distill Point	°C ASTM D86	295	304	---
85% Distillation Point	°C ASTM D86		315	---
90% Distill Point	°C ASTM D86	310	325	---
95% Distillation Point	°C ASTM D86		343	---
Final Boiling Point	°C ASTM D86	341	358	---

IGNITION QUALITY

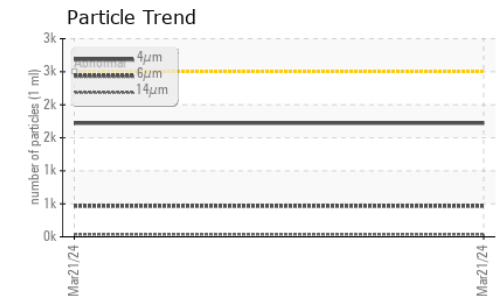
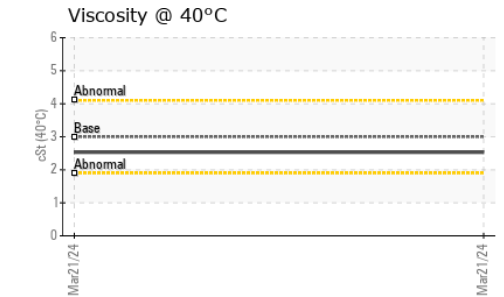
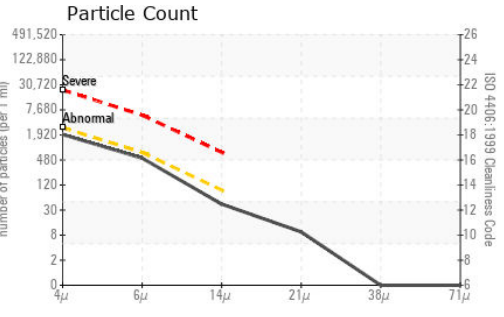
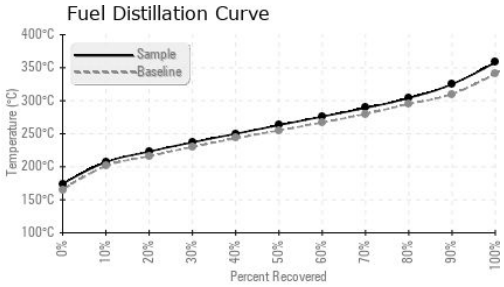
method	limit/base	current	history1	history2
API Gravity	ASTM D7777	37.7	36	---
Cetane Index	ASTM D4737	<40.0	47	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	<1.0	0	---
Sodium	ppm ASTM D5185m	<0.1	<1	---
Potassium	ppm ASTM D5185m	<0.1	0	---
Water	% ASTM D6304	<0.05	0.004	---
ppm Water	ppm ASTM D6304	<500	49	---
% Gasoline	% *In-House	<0.50	0.0	---
% Biodiesel	% *In-House	<20.0	0.0	---



FUEL REPORT



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	1721	---	---
Particles >6µm	ASTM D7647	>640	467	---	---
Particles >14µm	ASTM D7647	>80	37	---	---
Particles >21µm	ASTM D7647	>20	8	---	---
Particles >38µm	ASTM D7647	>4	0	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	18/16/12	---	---

MICROBIAL	method	limit/base	current	history1	history2
Bacteria	CFU/ml WC-Method	>=100000	0	---	---
Yeast	CFU/ml WC-Method	>=100000	▲ 1000	---	---
Mold	Colonies WC-Method	MODER	---	---	---

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	0	---	---
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	0	---	---
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



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WC06139455

Lab Number : **06139455**

Unique Number : 10964263

Test Package : DF-2 (Additional Tests: Bacteria, CldPt, 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)

Received : 04 Apr 2024

Tested : 15 Apr 2024

Diagnosed : 15 Apr 2024 - Doug Bogart

PETROLEUM RECOVERY SERVICES

210 POWELL DR

SUMMERVILLE, SC

US 29483

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