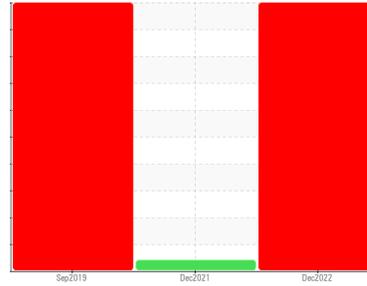




FUEL REPORT

Sample Rating Trend



VISUAL METAL



Machine Id
COLUMBUS REGIONAL HOSPITAL TANK 1 12K AST

Component
Diesel Fuel
Fluid
NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We advise that you inspect for the source(s) of rust. 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

High concentration of visible metal present as rust.

Contaminants

Appearance is unacceptable. High concentration of visible dirt/debris present in the fuel. There is a light concentration of Bacteria, Yeast and Fungus present 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		WC05713371	WC05426178	WC04798382
Sample Date	Client Info		08 Dec 2022	16 Dec 2021	12 Sep 2019
Machine Age	hrs	Client Info	0	0	0
Sample Status			SEVERE	ABNORMAL	SEVERE

PHYSICAL PROPERTIES

	method	limit/base	current	history1	history2
Specific Gravity	*ASTM D1298		0.845	0.850	0.849
Fuel Color	text	*Visual Screen	Red	Red	Red
ASTM Color	scalar	*ASTM D1500	L5.0	L5.5	L5.5
Visc @ 40°C	cSt	ASTM D445	2.57	2.63	2.72
Pensky-Martens Flash Point	°C	*PMCC Calculated	63	63	66

SULFUR CONTENT

	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	0	559	6
Sulfur (UVF)	ppm	ASTM D5453	9	661	16

DISTILLATION

	method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	166	168	169
5% Distillation Point	°C	ASTM D86	194	191	195
10% Distill Point	°C	ASTM D86	206	206	209
15% Distillation Point	°C	ASTM D86	216	215	218
20% Distill Point	°C	ASTM D86	225	223	226
30% Distill Point	°C	ASTM D86	240	237	240
40% Distill Point	°C	ASTM D86	253	250	253
50% Distill Point	°C	ASTM D86	266	264	266
60% Distill Point	°C	ASTM D86	279	278	280
70% Distill Point	°C	ASTM D86	293	292	294
80% Distill Point	°C	ASTM D86	308	308	309
85% Distillation Point	°C	ASTM D86	317	318	319
90% Distill Point	°C	ASTM D86	328	329	330
95% Distillation Point	°C	ASTM D86	344	348	349
Final Boiling Point	°C	ASTM D86	352	355	354
Distillation Residue	%	ASTM D86	1.4	1.4	1.4
Distillation Loss	%	ASTM D86	0.8	0.5	0.6

IGNITION QUALITY

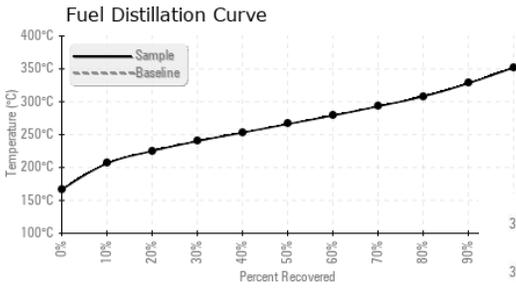
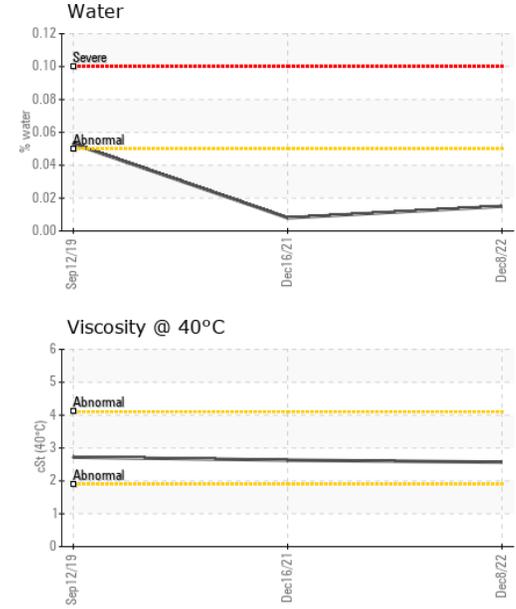
	method	limit/base	current	history1	history2
API Gravity	ASTM D7777		36.0	35.0	35.2
Cetane Index	ASTM D4737	<40.0	47.7	43.5	46.9

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	<1.0	<1	<1	1119
Sodium	ppm	ASTM D5185m	<0.1	0	<1	0
Potassium	ppm	ASTM D5185m	<0.1	0	0	0
Water	%	ASTM D6304	<0.05	0.015	0.008	0.053
ppm Water	ppm	ASTM D6304	<500	153.9	87.4	530
% Gasoline	%	*In-House	<0.50	0.0	0.0	0.2
% Biodiesel	%	*In-House	<20.0	0.0	1.1	0.0



FUEL REPORT



MICROBIAL	method	limit/base	current	history1	history2
Bacteria	CFU/ml WC-Method	>=100000	0	0	0
Yeast	CFU/ml WC-Method	>=100000	▲ 10	0	▲ 1000
Mold	Colonies WC-Method	MODER	---	---	---

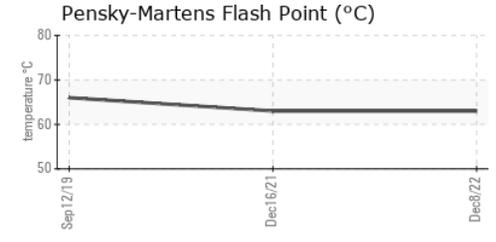
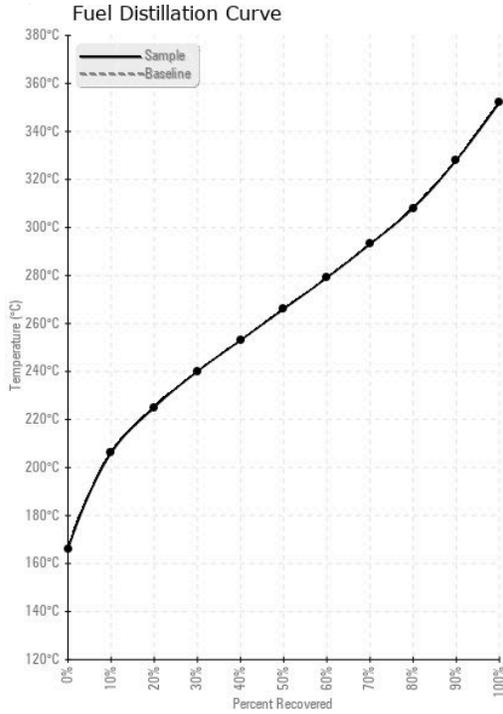
HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm ASTM D5185m	<0.1	2	<1	0
Nickel	ppm ASTM D5185m	<0.1	0	1	<1
Lead	ppm ASTM D5185m	<0.1	0	0	0
Vanadium	ppm ASTM D5185m	<0.1	0	0	0
Iron	ppm ASTM D5185m	<0.1	2	0	1
Calcium	ppm ASTM D5185m	<0.1	0	0	0
Magnesium	ppm ASTM D5185m	<0.1	0	0	0
Phosphorus	ppm ASTM D5185m	<0.1	2	0	0
Zinc	ppm ASTM D5185m	<0.1	0	0	<1

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

no image

no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC05713371 **Received** : 08 Dec 2022
Lab Number : 05713371 **Diagnosed** : 19 Dec 2022
Unique Number : 10247946 **Diagnostician** : Doug Bogart
Test Package : DF-2 (Additional Tests: Bacteria, Screen)

GAINES OIL COMPANY
 2346 S MAIN ST
 GOLDSTON, NC
 US 27252
 Contact: CHIP POOLE
 chip@gainesoil.com
 T: (919)898-2231
 F: (919)898-2981

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)