



FUEL REPORT

CORROSION	NORMAL
CONTAMINANTS	ABNORMAL
FUEL CONDITION	NORMAL

Machine Id
DUKE JET FUEL

Component
Diesel Fuel

Fluid
{not provided} (--- QTS)

RECOMMENDATION

We advise that you follow the water drain-off procedure for this component. All other laboratory tests indicate that this sample meets specifications for Jet A fuel.

CORROSION

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

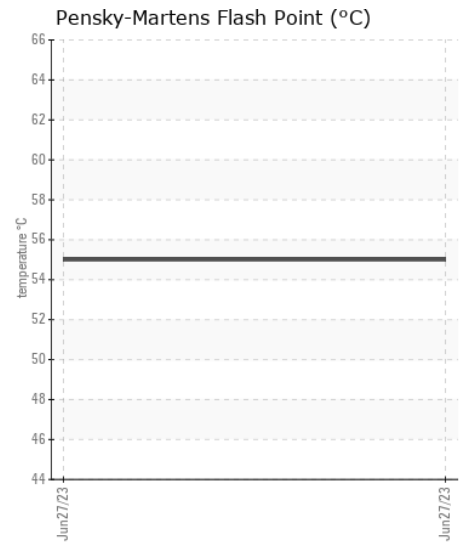
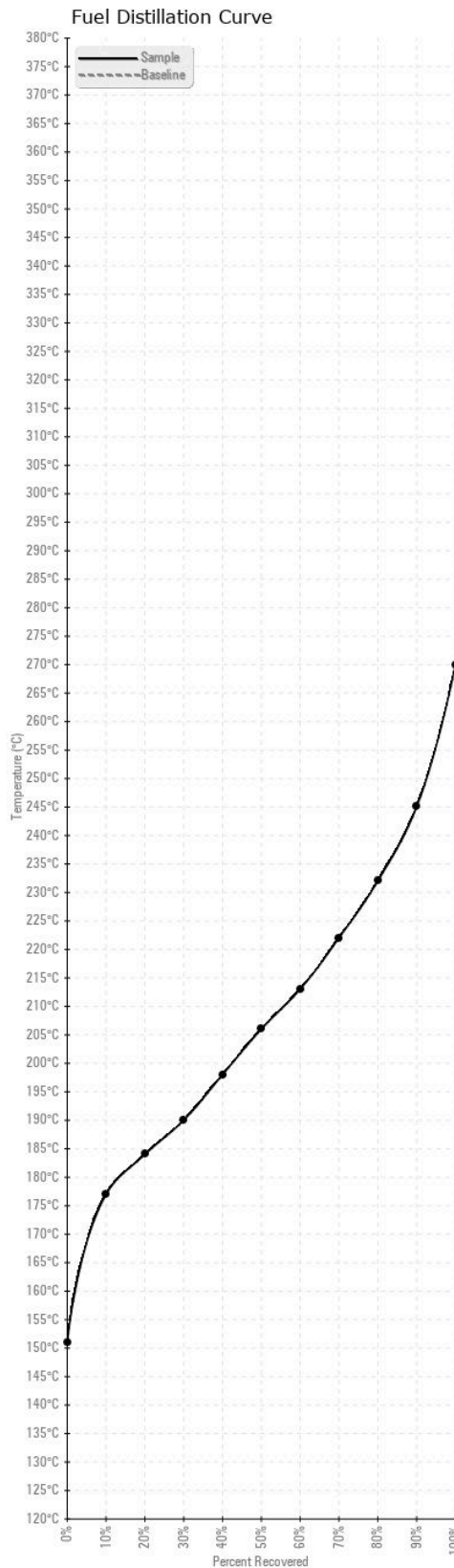
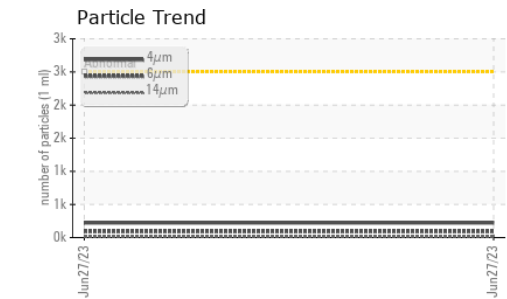
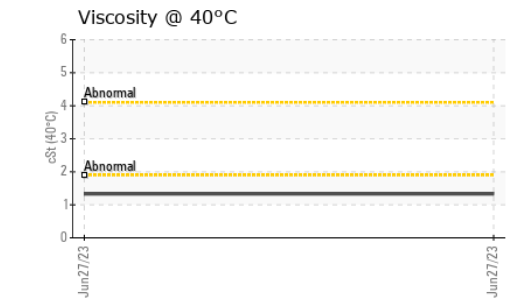
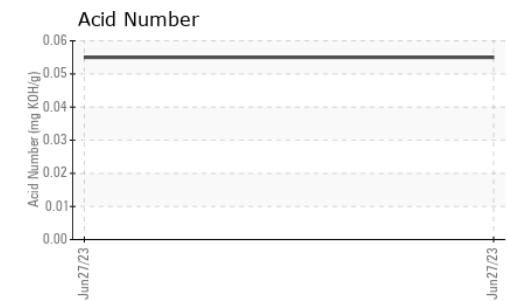
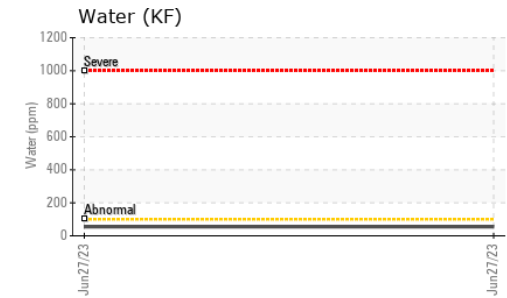
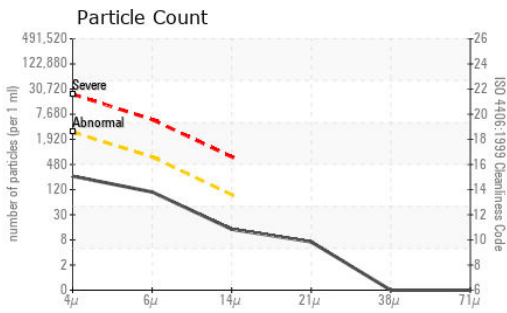
CONTAMINANTS

Free water present. The dissolved 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.

FUEL CONDITION

Sulfur value derived by ASTM D5453 method for ULSD validation.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC05885324	---	---
Sample Date		Client Info		27 Jun 2023	---	---
Machine Age	hrs	Client Info		0	---	---
Sample Status				ABNORMAL	---	---
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	---	---
Silicon	ppm	ASTM D5185m	<1.0	<1	---	---
Sodium	ppm	ASTM D5185m	<0.1	<1	---	---
Potassium	ppm	ASTM D5185m	<0.1	2	---	---
Water	%	ASTM D6304	<0.05	0.005	---	---
ppm Water	ppm	ASTM D6304	<500	54.7	---	---
Particles >4µm		ASTM D7647	>2500	222	---	---
Particles >6µm		ASTM D7647	>640	93	---	---
Particles >14µm		ASTM D7647	>80	12	---	---
Particles >21µm		ASTM D7647	>20	6	---	---
Particles >38µm		ASTM D7647	>4	0	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	15/14/11	---	---
% Gasoline	%	*In-House	<0.50	0.0	---	---
% Biodiesel	%	*In-House	<20.0	0.0	---	---
Calcium	ppm	ASTM D5185m	<0.1	0	---	---
Magnesium	ppm	ASTM D5185m	<0.1	6	---	---
Phosphorus	ppm	ASTM D5185m	<0.1	3	---	---
Zinc	ppm	ASTM D5185m	<0.1	1	---	---
Specific Gravity		*ASTM D1298		0.805	---	---
Fuel Color	text	*Visual Screen		Yellow	---	---
ASTM Color	scalar	*ASTM D1500		L1.5	---	---
Visc @ 40°C	cSt	ASTM D445		1.33	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated		55	---	---
Sulfur	ppm	ASTM D5185m		390	---	---
Sulfur (UVF)	ppm	ASTM D5453		428	---	---
Initial Boiling Point	°C	ASTM D86		151	---	---
10% Distill Point	°C	ASTM D86		177	---	---
20% Distill Point	°C	ASTM D86		184	---	---
30% Distill Point	°C	ASTM D86		190	---	---
40% Distill Point	°C	ASTM D86		198	---	---
50% Distill Point	°C	ASTM D86		206	---	---
60% Distill Point	°C	ASTM D86		213	---	---
70% Distill Point	°C	ASTM D86		222	---	---
80% Distill Point	°C	ASTM D86		232	---	---
90% Distill Point	°C	ASTM D86		245	---	---
Final Boiling Point	°C	ASTM D86		270	---	---
Distillation Residue	%	ASTM D86		1.2	---	---
Distillation Loss	%	ASTM D86		0.3	---	---
API Gravity		ASTM D7777		44.3	---	---
Cetane Index		ASTM D4737	<40.0	46.3	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC05885324
Lab Number : 05885324
Unique Number : 10535807
Test Package : DF-2 (Additional Tests: Bacteria, Screen)

Received : 27 Jun 2023
Tested : 10 Jul 2023
Diagnosed : 10 Jul 2023 - Doug Bogart

COUCH OIL COMPANY
 2907 HILLSBOROUGH RD
 DURHAM, NC
 US 27705

Contact: JESSE BROWN
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T: (919)285-5408

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)

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