

## FUEL REPORT



#### Machine Id

# DUKE HOCK FAMILY PAVILIAN

Diesel Fuel

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

#### DIAGNOSIS

#### Recommendation

All laboratory tests indicate that this sample meets specifications for No.2 diesel fuel, low sulfur

### 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 level above maximum allowed value for ULSD specification.

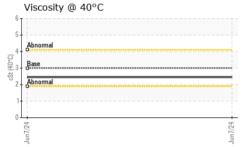


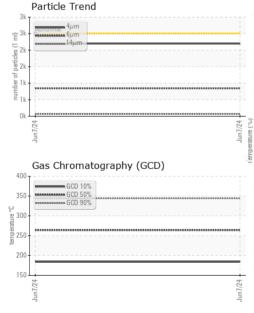
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0949679		
Sample Date		Client Info		07 Jun 2024		
Machine Age	hrs	Client Info		0		
Sample Status				NORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Fuel Color	text	*Visual Screen	Yllow	Red		
ASTM Color	scalar	*ASTM D1500		L4.5		
Visc @ 40°C	cSt	ASTM D445	3.0	2.45		
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	64.2		
SULFUR CONTER	١T	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	110		
Sulfur (UVF)	ppm	ASTM D5453		119		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	175		
5% Distillation Point	°C	ASTM D86		196		
10% Distill Point	°C	ASTM D86	201	206		
15% Distillation Point	°C	ASTM D86		214		
20% Distill Point	°C	ASTM D86	216	221		
30% Distill Point	°C	ASTM D86	230	235		
40% Distill Point	°C	ASTM D86	243	248		
50% Distill Point	°C	ASTM D86	255	261		
60% Distill Point	°C	ASTM D86	267	274		
70% Distill Point	°C	ASTM D86	280	288		
80% Distill Point	°C	ASTM D86	295	303		
85% Distillation Point	°C	ASTM D86		313		
90% Distill Point	°C	ASTM D86	310	324		
95% Distillation Point	°C	ASTM D86		341		
Final Boiling Point	°C	ASTM D86	341	355		
IGNITION QUALIT	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	35		
Cetane Index		ASTM D4737	<40.0	46		
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	1		
Water	%	ASTM D6304	<0.05	0.004		
ppm Water	ppm	ASTM D6304	<500	46		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



## **FUEL REPORT**

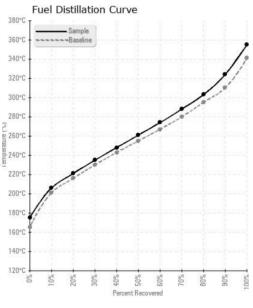
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8-						-22 (SO 4406:1999 Cleanliness Code -18 999 Cleanliness Code -14 -12 code -10 -10
22					1	
2+						+8
2 0 4µ	Water	<sup>6μ</sup> (KF)	14μ	21µ	38µ	-6 71µ
0 4μ 1200 1000 6 800	Nater Severe Abnormal		14µ	21µ	38µ	
04µ 1200 − 1000 − c (wdd) 300 − 400 − 200 −	Severe		14μ	21µ	38µ	
04µ 1200 1000 (mdd) Jappe 400	Severe		14μ	21µ	38µ	

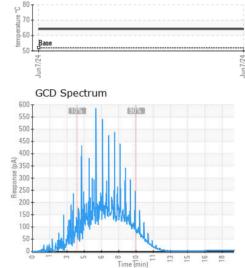




FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	2198		
Particles >6µm		ASTM D7647	>640	846		
Particles >14µm		ASTM D7647	>80	65		
Particles >21µm		ASTM D7647	>20	17		
Particles >38µm		ASTM D7647	>4	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	18/17/13		
HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	0		
Nickel	ppm	ASTM D5185m	<0.1	<1		
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	1		
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







Pensky-Martens Flash Point (°C)



**COUCH OIL COMPANY** Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0949679 Received : 10 Jun 2024 2907 HILLSBOROUGH RD Sample No. Lab Number : 06205270 Tested : 19 Jun 2024 DURHAM, NC US 27705 Unique Number : 11072731 Diagnosed : 19 Jun 2024 - Doug Bogart Test Package : DF-2 (Additional Tests: Fuel, Screen) Contact: JESSE BROWN Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. jesse@couchoilcompany.com T: (919)285-5408 \* - 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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Contact/Location: JESSE BROWN - COUDUR

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