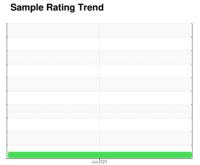


# **FUEL REPORT**

# **CITY OF ROCK HILL [17786]** [CITY OF ROCK HILL] FILTER PLANT 1

**Diesel Fuel** 

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (3000 GAL)





## 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

The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. There is no indication of any contamination in the fuel. The amount and size of particulates present in the system are acceptable.

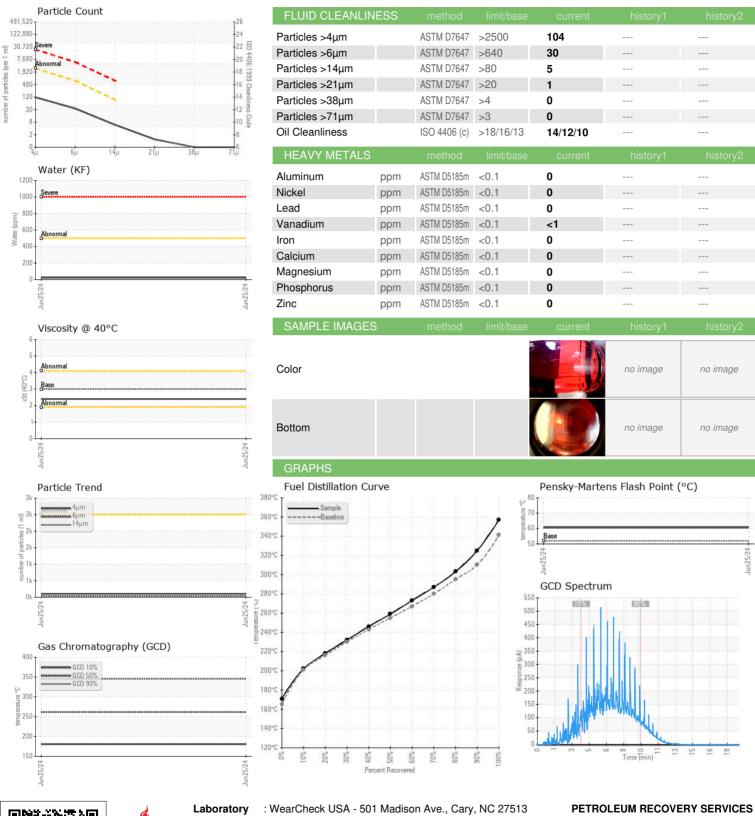
#### **Fuel Condition**

Sulfur value derived by ASTM D5453 method for ULSD validation. Sulfur level is acceptable for ULSD specification.

Visc @ 40°C Pensky-Martens Flash Point  SULFUR CONTENT  Sulfur Sulfur (UVF)  DISTILLATION  Initial Boiling Point 5% Distillation Point 10% Distill Point 20% Distill Point 30% Distill Point 40% Distill Point 60% Distill Point	Client In Client	fo f	WC0957747  25 Jun 2024  0  NORMAL  Se current  L4.0  2.4  60.6  Se current  171  193  202  210  218  232	history1 history1 history1 history1	history2 history2 history2 history2 history2
Sample Date Machine Age Sample Status  PHYSICAL PROPER ASTM Color Visc @ 40°C Pensky-Martens Flash Point  SULFUR CONTENT Sulfur (UVF)  DISTILLATION  Initial Boiling Point 5% Distillation Point 10% Distill Point 15% Distill Point 20% Distill Point 30% Distill Point 40% Distill Point 50% Distill Point 60% Distill Point	Client In Client	fo   limit/bas   100   limit/bas   100   limit/bas   100   limit/bas   100   limit/bas   165   1	25 Jun 2024 0 NORMAL  Se current  L4.0  2.4 60.6  Se current  0  8  Se current  171 193 202 210 218 232	history1 history1 history1 history1	history2 history2 history2
Machine Age Sample Status  PHYSICAL PROPER ASTM Color Visc @ 40°C Pensky-Martens Flash Point  SULFUR CONTENT Sulfur Sulfur (UVF)  DISTILLATION  Initial Boiling Point 10% Distill Point 10% Distill Point 20% Distill Point 20% Distill Point 30% Distill Point 40% Distill Point 60% Distill Point 60% Distill Point 60% Distill Point 80% Distill Point 90% Distill Point	Client In  RTIES method calar *ASTM D15 St ASTM D4 C *PMCC Calcula  method calar *ASTM D518  Method calar *ASTM D518  C ASTM D54  C ASTM D64  C ASTM D65	fo limit/bas 500 45 3.0 52 d limit/bas 55 10 58 165 86 201 86 216 86 230	0 NORMAL  Se current L4.0 2.4 60.6 Se current 0 8 Se current 171 193 202 210 218 232	history1 history1 history1	history2 history2 history2 history2
Sample Status  PHYSICAL PROPER  ASTM Color Visc @ 40°C  Pensky-Martens Flash Point  SULFUR CONTENT  Sulfur (UVF)  DISTILLATION  Initial Boiling Point  SW Distillation Point  SW Distillation Point  SW Distill Point  SW DISTILLATION  SW DI	RTIES method calar *ASTM D15 St ASTM D4 C *PMCC Calcula method om ASTM D518 om ASTM D54  method C ASTM D6	limit/bas   3.0   45   3.0   3.0   steel   52   d	NORMAL  Se current  L4.0  2.4 60.6  Se current  0  8  Se current  171 193 202 210 218 232	history1 history1 history1	history2 history2 history2 history2
PHYSICAL PROPER ASTM Color Visc @ 40°C Pensky-Martens Flash Point  SULFUR CONTENT Sulfur Sulfur (UVF)  DISTILLATION  Initial Boiling Point  SW Distillation Point  SW Distill Point  SW DISTILLATION  SW DISTILLATI	calar *ASTM D15 St ASTM D4 C *PMCC Calcula  method  method  ASTM D518  method  C ASTM D6 C ASTM	500 45   3.0 52   3.0 58   10 53   10 53   10 64   limit/bas 66   165 66   201 66   216 66   230	ce current L4.0 2.4 60.6 ce current 0 8 ce current 171 193 202 210 218 232	history1 history1 history1	history2 history2 history2
ASTM Color Visc @ 40°C Pensky-Martens Flash Point SULFUR CONTENT Sulfur Sulfur (UVF) DISTILLATION Initial Boiling Point O'C Distillation Point O'C Distill Point O'C DISTILLATION O'C	calar *ASTM D15 St ASTM D4 C *PMCC Calcula  method  method  ASTM D518  method  C ASTM D6 C ASTM	500 45   3.0 52   3.0 58   10 53   10 53   10 64   limit/bas 66   165 66   201 66   216 66   230	L4.0  2.4 60.6  60 current  0 8  60 current  171 193 202 210 218 232	history1 history1	history2 history2
Visc @ 40°C Pensky-Martens Flash Point  SULFUR CONTENT Sulfur Sulfur (UVF)  DISTILLATION  Initial Boiling Point  5% Distillation Point  10% Distill Point  15% Distill Point  20% Distill Point  30% Distill Point  40% Distill Point  50% Distill Point	ASTM D4 PMCC Calculation method method C ASTM D518 C ASTM D6 C AST	45   3.0   3	2.4 60.6 se current 0 8 se current 171 193 202 210 218 232	history1 history1	history2 history2
Pensky-Martens Flash Point  SULFUR CONTENT  Sulfur (UVF)  DISTILLATION  Initial Boiling Point  SW Distillation Point  SW Distill Point  SW Distill Point  SW Distill Point  CW Distill Point  SW Distill Point  CW DISTILLATION  CW DISTI	method  method	10 limit/bas 5m 10 limit/bas 6d limit/bas 86 165 86 201 86 216 86 230	60.6  ce current  0  8  ce current  171  193  202  210  218  232	history1 history1	history2 history2
SULFUR CONTENT  Sulfur pr Sulfur (UVF) pr  DISTILLATION  Initial Boiling Point of the properties of th	methodom ASTM D518 bm ASTM D54  methodo C ASTM D6	limit/bas 5m 10 53 limit/bas 66 165 86 201 86 216 86 230	ce current  0 8 6e current  171  193  202  210  218  232	history1 history1	history2
Sulfur (UVF)  DISTILLATION  nitial Boiling Point of the p	ASTM D518  method  C ASTM D6  ASTM D6  C AST	5m 10 53   limit/bas 86 165 86 201 86 216 86 230	0 8 se current 171 193 202 210 218 232	history1	history2
DISTILLATION  nitial Boiling Point  5% Distillation Point  10% Distill Point  20% Distill Point  30% Distill Point  50% Distill Point	method  C ASTM DC	53   limit/bas 86	8 se current 171 193 202 210 218 232	history1	history2
DISTILLATION  nitial Boiling Point  5% Distillation Point  10% Distill Point  5% Distillation Point  20% Distill Point  30% Distill Point  50% Distill Point	method C ASTM DC	limit/bas 86 165 86 201 86 216 86 230	ce current 171 193 202 210 218 232	history1	history2   
nitial Boiling Point  5% Distillation Point  10% Distill Point  15% Distillation Point  20% Distill Point  30% Distill Point  40% Distill Point  50% Distill Point  50% Distill Point  60% Distill Point  6	ASTM DO C ASTM D	86 165 86 201 86 216 86 230	171 193 202 210 218 232		
5% Distillation Point 10% Distill Point 15% Distillation Point 15% Distill Point 160% Distillation Point 160% Distillation Point 160% Distill Poin	ASTM DO	86 201 86 216 86 230	193 202 210 218 232		
10% Distill Point 15% Distillation Point 15% Distillation Point 160% Distill Point 160% Distillation Point 160% Distillation Point 160% Distillation Point 160% Distillation Point 160% Distill Point 160%	ASTM DE	86 201 86 86 216 86 230	202 210 218 232		
15% Distillation Point 20% Distill Point 30% Distill Point 40% Distill Point 50% Distill Point 50% Distill Point 70% Distill Point 60% Dis	ASTM DO ASTM DO ASTM DO ASTM DO ASTM DO	86 216 86 230	210 218 232		
20% Distill Point °C 30% Distill Point °C 30% Distill Point °C 50% Disti	ASTM DO ASTM DO ASTM DO	36 216 36 230	218 232		
30% Distill Point °C 10% Disti	ASTM D	86 230	232		
40% Distill Point °C0	C ASTM D				
50% Distill Point °C 50% Distillation Point °C 50% Distillation Point °C 55% Distillation Point °C		86 243	0.40		
50% Distill Point °C 70% Distill Point °C 80% Distill Point °C 85% Distillation Point °C 95% Distillation Point °C Final Boiling Point °C IGNITION QUALITY	AOTA D		246		
70% Distill Point °C 80% Distill Point °C 85% Distillation Point °C 90% Distill Point °C 95% Distillation Point °C Final Boiling Point °C IGNITION QUALITY	C ASTM D	86 255	259		
80% Distill Point °C 85% Distillation Point °C 90% Distill Point °C 95% Distillation Point °C Final Boiling Point °C IGNITION QUALITY	C ASTM D	86 267	273		
95% Distillation Point °C 90% Distill Point °C 95% Distillation Point °C	C ASTM D	86 280	287		
90% Distill Point °C 15% Distillation Point °C Final Boiling Point °C IGNITION QUALITY	C ASTM D	86 295	303		
95% Distillation Point °CFinal Boiling Point °CFINALITY	C ASTM D	86	314		
Final Boiling Point °C	C ASTM D	86 310	325		
IGNITION QUALITY	C ASTM D	86	343		
	C ASTM D	86 341	357		
ADI Osas situs	method	d limit/bas	se current	history1	history2
API Gravity	ASTM D77	77 37.7	37		
Cetane Index	ASTM D47	37 <40.0	49		
CONTAMINANTS	method	d limit/bas	se current	history1	history2
Silicon pp	om ASTM D518	5m <1.0	<1		
Sodium pr	om ASTM D518	5m <0.1	1		
Potassium pp	om ASTM D518	5m <0.1	<1		
Water %	ASTM D63	04 < 0.05	0.002		
ppm Water pp	om ASTM D63	04 <500	22		
% Gasoline %					
% Biodiesel %	*In-Hous	se <0.50	0.0		



# **FUEL REPORT**







Certificate 12367

Sample No.

Lab Number

: WC0957747 : 06220288 Unique Number : 11098485

**Tested** Diagnosed

Test Package : DF-2 (Additional Tests: 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

: 25 Jun 2024

: 28 Jun 2024

: 28 Jun 2024 - Elizabeth Valachovic

210 POWELL DR SUMMERVILLE, SC

US 29483 Contact: AJAY EL Ajay@prsfuel.com T: (843)225-1777