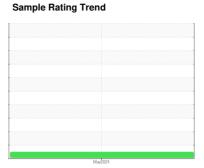


FUEL REPORT

QTS ATLANTA GA DC1 [4768] [QTS ATLANTA GA DC1] AST-1

Diesel Fuel

No.2 DIESEL FUEL (ULTRALOW SULPHUR





D			

Recommendation

No corrective action is recommended at this time. All laboratory tests indicate that this sample meets ASTM D975 specifications for No.2 ultra-low-sulfur diesel fuel.

Corrosion

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

Contaminants

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

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	7) (00000 OAL)						
Sample Number Client Info WC0953974	R) (20000 GAL)				May2024		
Sample Date Client Info Q2 May 2024	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Date Client Info Q2 May 2024 Machine Age hrs Client Info Q	Sample Number		Client Info		WC0953974		
Machine Age Sample Status Normal Mormal Mormal			Client Info		22 May 2024		
NORMAL Sample Status NORMAL Sample Status PHYSICAL PROPERTIES method limit/base current history1 history2	Machine Age	hrs	Client Info		0		
Fuel Color text "Visual Screen Yllow Red					NORMAL		
ASTM Color	PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Visc @ 40°C CSt ASTM D445 3.0 2.29 Pensky-Martens Flash Point °C 'PMCC Goldsted 52 59.8 SULFUR CONTENT method limit/base current history1 history2 Sulfur ppm ASTM D5185m 10 <1	Fuel Color	text	*Visual Screen	Yllow	Red		
Pensky-Martens Flash Point °C °PMCC Calcided 52 59.8 .	ASTM Color	scalar	*ASTM D1500		L4.5		
SULFUR CONTENT method limit/base current history1 history2 Sulfur ppm ASTM D5185m 10 <1	Visc @ 40°C	cSt	ASTM D445	3.0	2.29		
Sulfur DPM	Pensky-Martens Flash Point	°C	*PMCC Calculated	52	59.8		
Sulfur (UVF) DPM ASTM D5453 9	SULFUR CONTE	NΤ	method	limit/base	current	history1	history2
DISTILLATION	Sulfur	ppm	ASTM D5185m	10	<1		
Initial Boiling Point	Sulfur (UVF)	ppm	ASTM D5453		9		
5% Distillation Point °C ASTM D86 190 10% Distill Point °C ASTM D86 201 200 15% Distillation Point °C ASTM D86 208 20% Distill Point °C ASTM D86 216 216 30% Distill Point °C ASTM D86 230 230 40% Distill Point °C ASTM D86 243 242 50% Distill Point °C ASTM D86 255 255 60% Distill Point °C ASTM D86 280 284 80% Distill Point °C ASTM D86 295 300 85% Distillation Point °C ASTM D86 312 90% Distill Point °C ASTM D86 342 Final Boiling Point °C ASTM D86 <td>DISTILLATION</td> <td></td> <td>method</td> <td>limit/base</td> <td>current</td> <td>history1</td> <td>history2</td>	DISTILLATION		method	limit/base	current	history1	history2
10% Distill Point °C ASTM D86 201 200 15% Distillation Point °C ASTM D86 208 20% Distill Point °C ASTM D86 216 216 30% Distill Point °C ASTM D86 230 230 40% Distill Point °C ASTM D86 243 242 50% Distill Point °C ASTM D86 255 255 60% Distill Point °C ASTM D86 280 284 80% Distill Point °C ASTM D86 295 300 85% Distillation Point °C ASTM D86 312 90% Distill Point °C ASTM D86 342 Final Boiling Point °C ASTM D86 341 357 IGNITION QUALITY method	Initial Boiling Point	°C	ASTM D86	165	170		
15% Distillation Point °C ASTM D86 208 20% Distill Point °C ASTM D86 216 216 30% Distill Point °C ASTM D86 230 230 40% Distill Point °C ASTM D86 243 242 50% Distill Point °C ASTM D86 255 255 60% Distill Point °C ASTM D86 280 284 70% Distill Point °C ASTM D86 295 300 85% Distillation Point °C ASTM D86 312 90% Distill Point °C ASTM D86 342 Final Boiling Point °C ASTM D86 342 Final Boiling Point °C ASTM D86 341 357 IGNITION QUALITY method limit/base<	5% Distillation Point	°C	ASTM D86		190		
20% Distill Point °C ASTM D86 216 216 30% Distill Point °C ASTM D86 230 230 40% Distill Point °C ASTM D86 243 242 50% Distill Point °C ASTM D86 255 255 60% Distill Point °C ASTM D86 280 284 70% Distill Point °C ASTM D86 295 300 85% Distillation Point °C ASTM D86 312 90% Distill Point °C ASTM D86 312 95% Distillation Point °C ASTM D86 342 Final Boiling Point °C ASTM D86 341 357 IGNITION QUALITY method limit/base current history1 history2 ASTM D4737 <40.0	10% Distill Point	°C	ASTM D86	201	200		
30% Distill Point °C ASTM D86 230 230 40% Distill Point °C ASTM D86 243 242 50% Distill Point °C ASTM D86 255 255 60% Distill Point °C ASTM D86 267 270 70% Distill Point °C ASTM D86 280 284 80% Distill Point °C ASTM D86 295 300 85% Distillation Point °C ASTM D86 312 90% Distill Point °C ASTM D86 342 95% Distillation Point °C ASTM D86 342 Final Boiling Point °C ASTM D86 341 357 IGNITION QUALITY method limit/base current history1 history2 API Gravity ASTM D4737	15% Distillation Point	°C	ASTM D86		208		
40% Distill Point °C ASTM D86 243 242 50% Distill Point °C ASTM D86 255 255 60% Distill Point °C ASTM D86 267 270 70% Distill Point °C ASTM D86 280 284 80% Distill Point °C ASTM D86 295 300 85% Distillation Point °C ASTM D86 312 90% Distill Point °C ASTM D86 312 95% Distillation Point °C ASTM D86 342 Final Boiling Point °C ASTM D86 341 357 IGNITION QUALITY method limit/base current history1 history2 API Gravity ASTM D4737 <0.0	20% Distill Point	°C	ASTM D86	216	216		
50% Distill Point °C ASTM D86 255 60% Distill Point °C ASTM D86 267 270 70% Distill Point °C ASTM D86 280 284 80% Distill Point °C ASTM D86 295 300 85% Distillation Point °C ASTM D86 312 90% Distill Point °C ASTM D86 342 95% Distillation Point °C ASTM D86 342 Final Boiling Point °C ASTM D86 341 357 Final Boiling Point °C ASTM D86 341 357 IGNITION QUALITY method limit/base current history1 history2 API Gravity ASTM D4737 <40.0	30% Distill Point	°C	ASTM D86	230	230		
60% Distill Point °C ASTM D86 267 270 70% Distill Point °C ASTM D86 280 284 80% Distill Point °C ASTM D86 295 300 85% Distillation Point °C ASTM D86 312 90% Distill Point °C ASTM D86 342 95% Distillation Point °C ASTM D86 342 Final Boiling Point °C ASTM D86 341 357 IGNITION QUALITY method limit/base current history1 history2 API Gravity ASTM D4737 <0.0	40% Distill Point	°C	ASTM D86	243	242		
70% Distill Point °C ASTM D86 280 284 80% Distill Point °C ASTM D86 295 300 85% Distillation Point °C ASTM D86 312 90% Distill Point °C ASTM D86 342 95% Distillation Point °C ASTM D86 342 Final Boiling Point °C ASTM D86 341 357 IGNITION QUALITY method limit/base current history1 history2 API Gravity ASTM D4737 37.7 37 Cetane Index ASTM D4737							

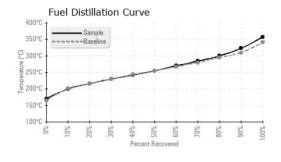


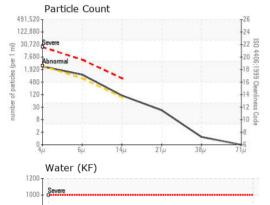
600

200

724

FUEL REPORT





May22		May22/
	scosity @ 40°C	
5		
A D-	nomal	
St (40°C)	:e	
2 - Abi	normal	
1		
May22/24		May22/24 -
May		May,



FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	2324		
Particles >6µm		ASTM D7647	>640	958		
Particles >14μm		ASTM D7647	>80	97		
Particles >21µm		ASTM D7647	>20	19		
Particles >38µm		ASTM D7647	>4	1		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	18/17/14		
MICROBIAL		method	limit/base	current	history1	history2
Bacteria	CFU/ml	WC-Method	>=100000	0		
Yeast	CFU/ml	WC-Method	>=100000	0		
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	6		
Zinc	ppm	ASTM D5185m	<0.1	4		
SAMPLE IMAGES	;	method	limit/base	current	history1	history2
Color					no image	no image





Certificate 12367

Laboratory

Sample No. Lab Number : 06203245

: WC0953974

Unique Number : 11070706

Bottom

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 07 Jun 2024 **Tested** : 14 Jun 2024

Diagnosed : 17 Jun 2024 - Elizabeth Valachovic

Test Package : DF-2 (Additional Tests: BACTERIA, 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)

PETROLEUM RECOVERY SERVICES

no image

no image

210 POWELL DR SUMMERVILLE, SC US 29483

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

Contact/Location: AJAY EL - PETSUM