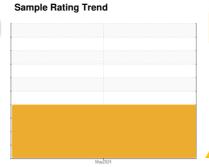


FUEL REPORT

QTS SUWANEE DC1 [17708] **[QTS SUWANEE DC1] MT2**

Diesel Fuel

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (20000 GAL)





DIAGNOSIS

Recommendation

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system

Corrosion

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

Contaminants

There is a high amount of suspended silt (particulates < 14 microns in size) present in the fuel. Free water present. Moderate concentration of visible dirt/debris present in the fuel. There is a moderate amount of visible silt present in the sample. There is no bacteria or fungus (yeast and/or mold) present in the sample.

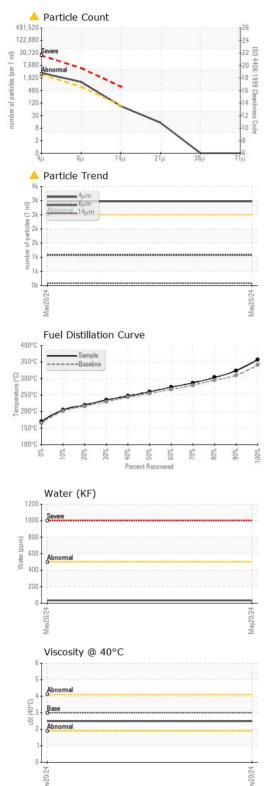
Fuel Condition

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

i) (20000 GAL)						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0953836		
Sample Date		Client Info		20 May 2024		
Machine Age	hrs	Client Info		0		
Sample Status				ABNORMAL		
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	2.49		
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	60.2		
SULFUR CONTE	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	0		
Sulfur (UVF)	ppm	ASTM D5453		9		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	170		
5% Distillation Point	°C	ASTM D86	100	195		
10% Distill Point	°C	ASTM D86	201	205		
15% Distillation Point	°C	ASTM D86	201	213		
20% Distill Point	°C	ASTM D86	216	220		
30% Distill Point	°C	ASTM D86	230	235		
40% Distill Point	°C	ASTM D86	243	247		
50% Distill Point	°C	ASTM D86	255	260		
60% Distill Point	°C	ASTM D86	267	274		
70% Distill Point	°C	ASTM D86	280	287		
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		ASTM D86		342		
Final Boiling Point	°C	ASTM D86	341	357		
IGNITION QUALIT	ΓΥ	method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	36		
Cetane Index		ASTM D4737	<40.0	48		
CONTAMINANTS		method	limit/base	current	history1	history2
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	0.003		
ppm Water	ppm	ASTM D6304	<500	34		
% Gasoline	%	*In-House	< 0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



FUEL REPORT



FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	2973		
Particles >6µm		ASTM D7647	>640	<u> </u>		
Particles >14µm		ASTM D7647	>80	76		
Particles >21µm		ASTM D7647	>20	12		
Particles >38µm		ASTM D7647	>4	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<u> </u>		
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	1		
Vanadium	ppm	ASTM D5185m	< 0.1	0		
Iron	ppm	ASTM D5185m	< 0.1	<1		
Calcium	ppm	ASTM D5185m	< 0.1	0		
Magnesium	ppm	ASTM D5185m	< 0.1	0		
Phosphorus	ppm	ASTM D5185m	< 0.1	0		
Zinc	ppm	ASTM D5185m	< 0.1	0		
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image





Certificate 12367

Laboratory

Sample No.

Lab Number : 06204043 Unique Number : 11071504

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0953836 Received

Tested Diagnosed

: 07 Jun 2024 : 18 Jun 2024

: 18 Jun 2024 - Doug Bogart Test Package : DF-2 (Additional Tests: Bacteria, Fuel, Screen)

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

210 POWELL DR

* - 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)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Report Id: PETSUM [WUSCAR] 06204043 (Generated: 06/19/2024 12:35:31) Rev: 1

Contact/Location: AJAY EL - PETSUM

PETROLEUM RECOVERY SERVICES