



Industrial Tank Field Report

GROUP INFO: MUSC Health DATE: 7-2-19
 CUSTOMER: MUSC INFO-OTHER: University Tanks
 FACILITY: Building 952 (Ashley Parking Garage)
 ADDRESS: 139 Jonathan Lucas St. MSC 190, Charleston, SC 29425
 CONTACT: Rick Burt, Matthew Long PHONE: 843-323-0453
 EMAIL: burtld@musc.edu, Longmat@musc.edu CELL: (843) 792-3552
 Unit Id : 952-01-100DT Type : SBT Capacity : 600 Material: Dsl

Last Tank Service: 2018

FUEL SAMPLE TAKEN:

- Annual/Pre-Clean
- Post Clean
- None

SERVICES PERFORMED:

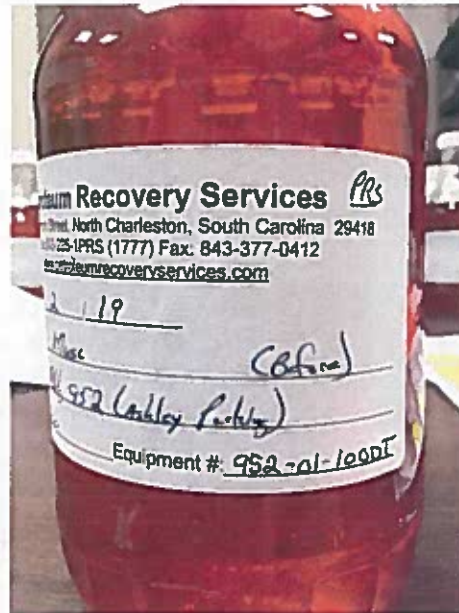
- Maintenance
- STI 001 Inspection
- Tank Cleaning
- Bottom Sweep
- Pre-clean Lab Analysis
- Post-clean Lab Analysis

Fuel Treatment:

- HydroClean
- ILFC 1032
- Biocide Predator 6000
- None

Exterior Tank Condition:

- Good Bad
- Recommend Inspection



PARTS CONDITION:

<input checked="" type="checkbox"/>	Good	<input type="checkbox"/>	Bad	<input type="checkbox"/>	N/A -Fill Cap
<input checked="" type="checkbox"/>	Good	<input type="checkbox"/>	Bad	<input type="checkbox"/>	N/A - Vent
<input checked="" type="checkbox"/>	Good	<input type="checkbox"/>	Bad	<input type="checkbox"/>	N/A -Fill Port
<input checked="" type="checkbox"/>	Good	<input type="checkbox"/>	Bad	<input type="checkbox"/>	N/A -Sump
<input checked="" type="checkbox"/>	Good	<input type="checkbox"/>	Bad	<input type="checkbox"/>	N/A - Spill Bucket
<input checked="" type="checkbox"/>	Good	<input type="checkbox"/>	Bad	<input type="checkbox"/>	N/A - Gauge
<input checked="" type="checkbox"/>	Good	<input type="checkbox"/>	Bad	<input type="checkbox"/>	N/A - Gaskets

CONTAMINANTS FOUND:

- Pre-Clean Post Clean
- None
- Bulk Water
- Suspended Water
- Micro-organisms
- Sediments
- Rust
- Sludge

VISUAL FUEL RATING:

- Pre-Clean Post Clean
- Refinery Fresh
- Good
- Watch Closely
- Advanced Aging
- Bad-Not Recommended
- Severe-Do Not Use

THIS TANK DOES NOT PASS ASTM D975 "CLEAR & BRIGHT" VISUAL INSPECTION

**Tank cleaning is recommended based on Visual Fuel Inspection ONLY. Lab Report will determine fuel parameters based on ASTM D975 Specifications*

THIS TANK PASSES THE ASTM D975 "CLEAR & BRIGHT" VISUAL INSPECTION.

**Lab Report will determine fuel parameters based on ASTM D975 Specifications*

COMMENTS: Picture of the before cleaning sample



SERVICE TECHNICIAN: Ron and Steven

DATE: 7-2-19



Loretta Shaw
Petroleum Recovery Services
4310 Amsterdam St.
North Charleston, SC 29418
843-225-1777

Sample Taken From: 952-01-100DT
Sample ID: 952-01-100DT
PO: 632488
WO: MUSC-University - Pre

Sample Collection Date: 07/2/2019
Date Received: 07/16/2019
Date Released: 07/19/2019
Component Make:
Component Model: SBT
Tank Capacity: 600 g
Quantity in Tank:
Test Package: Petroleum Recovery Pkg.
Type of Fuel: ULSD
Serial Number:

Test	Limits	Methods	Result
API Gravity by Hydrometer	report	ASTM D1298-99	36
Cetane Index	40 minimum	ASTM D976-01	42.2
Cloud Point	report °C	ASTM D2500-99	-12
Copper Strip Corrosion	3 maximum	ASTM D130-04	1a
Distillation, 50%	report °C	ASTM D86-08a	240.0
Distillation, 90%	282 - 338 °C	ASTM D86-08a	307.22
Flash Point	52 °C minimum	ASTM D93-10	64.44
Microbial Growth	report	Micro/Culture Medium	Negative
Particulate Contamination	report in milligrams/liter	ASTM D6217-08	2
Sulfur	15 ppm maximum	ASTM D5453-09	56
Visual Appearance	Visual	ASTM D4176-04	Clear, Light Sediment, Some Particles
Water and Sediment	0.05 maximum (% volume)	ASTM D2709	0.01
Water by Karl Fischer	report in ppm	ASTM D6304-16	116

Comments

High Sulfur: Too much sulfur can cause wear in diesel engines as a result of the corrosive nature of its combustion by-products. It also increases the amount of deposits in the combustion chamber and on the pistons. ASTM sets limits at 15ppm ULSD, 500ppm LSD & 5,000 High Sulfur.

Limits for Particulate Contamination are 10 mg/L in Marine diesel fuel; Petroleum Recovery Services recommends fuel maintenance/filtration on any fuel with 200 ppm or higher of water present.

These results are submitted pursuant to our terms, conditions and limitations and laboratory pricing policy. No responsibility is assumed for the manner in which these results are used or interpreted.