

Industrial Tank Field Report

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 burld@musc.edu, Longmatl@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 Condition: Good Bad N/A - Fill Cap Sood Bad N/A - Fill Port Sood Bad N/A - Fill Port Sood Bad N/A - Fill Port Sood Bad N/A - Suntp Micro-organisms / Sediments Micro-organisms / Sediments / Sediments Bulk Water Suspended Water Micro-organisms / Sediments Bad-Not Recommended Severe-Do Not Use StrANK DOES NOT PASS ASTM D975 "CLEAR & BRIGHT" VISUAL INSPECTION. THIS TANK PASSES THE ASTM D975 "CLEAR BRIGHT" VISUAL INSPECTION.	GROUP INFO: MUSC Health CUSTOMER: MUSC		DATE: 7-2-19 INFO-OTHER: University Tanks	
ADDRESS: 139 Jonathan Lucas St. MSC 190, Charleston, SC 29425 CONTACT: Rick Burt, Matthew Long PHONE: 843-323-0453 EMAIL burtd@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 Post Clean Lab Analysis Post-clean Lab Analysis Post Clean Lab Analysis Post		INFO-OTHER: CHARGO TARRO		
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Unit Id: 952-01-100DT Type: SBT Capacity: 600 Material: Dsl Last Tank Service: 2018 FUEL SAMPLE TAKEN: V Annual/Pre-Clean Post Clean Bad Dylar Pre-Clean Lab Analysis Post-clean Lab Condition: Good Bad Dylar Post Clean Recommend Inspection RTS CONDITION: CONTAMINANTS FOUND: V Pre-Clean Post Clean Post Clean Post Clean Post Clean Refinery Fresh Refinery Fresh Post Clean Refinery Fresh Refinery Fresh Watch Closely Match Closel	CONTACT: Rick Burt, Matthew Lo			
Last Tank Service: 2018 FUEL SAMPLE TAKEN: Vannual/Pre-Clean Post Clean None SERVICES PERFORMED: Maintenance STI 001 Inspection Tank Cleaning Bottom Sweep Pre-clean Lab Analysis Post-clean Lab A	EMAIL burtd@musc.edu, Longmat@	musc.edu CELL	: (843) 792-3552	
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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 terrior Tank Condition: Good Bad N/A - Fill Cap None Sterrior Tank Condition: Good Bad N/A - Vent Good Bad N/A - Vent Bulk Water Suspended Water Micro-organisms Advanced Aging Bad-Not Recommended Services Stank Does Not Pass ASTM D975 "CLEAR & BRIGHT" This Tank Passes Tile ASTM	Last Tank Service: 2018			
Good Bad N/A - Fill Cap None Refinery Fresh Good Bad N/A - Vent Bulk Water Good Good Bad N/A - Spill Port Suspended Water Watch Closely Good Bad N/A - Spill Bucket Micro-organisms Advanced Aging Good Bad N/A - Gauge Rust Bad-Not Recommended Good Bad N/A - Gaskets Sludge Severe-Do Not Use STANK DOES NOT PASS ASTM D975 "CLEAR & BRIGHT" THIS TANK PASSES THE ASTM D975 "CLEAR BRIGHT" VISUAL INSPECTION.	Annual/Pre-Clean Post Clean None SERVICES PERFORMED: Maintenance STI 001 Inspection Tank Cleaning Bottom Sweep Pre-clean Lab Analysis Post-clean Lab Analysis Post-clean Lab Analysis ILFC 1032 Biocide Predator 6000 None Sterior Tank Condition: Good Bad		Mac (Addy Color)	
letermine fuel parameters based on ASTM D975 Specifications ASTM D975 Specifications MMENTS: Picture of the before cleaning sample	Good Bad N/A - Fill Cap Good Bad N/A - Vent Good Bad N/A - Fill Port Good Bad N/A - Spill Bucket Good Bad N/A - Spill Bucket Good Bad N/A - Gauge Good Bad N/A - Gaskets S TANK DOES NOT PASS ASTM D975 "C UAL INSPECTION k cleaning is recommended based on Visual Fuel In letermine fuel parameters based on ASTAI D975 Sp	✓ Pre-Clean Post Clean None Bulk Water Suspended Water Micro-organisms ✓ Sediments Rust Sludge LEAR & BRIGHT" Ispection ONLY, Lub Report ectifications	✓ Pre-Clean Post Clean Refinery Fresh ✓ Good Watch Closely Advanced Aging Bad-Not Recommended Severe-Do Not Use THIS TANK PASSES THE ASTM D975 "CLEAR OBRIGHT" VISUAL INSPECTION. Lab Report will determine fuel parameters based on	





Laboratory Number: 71619529

Loretta Shaw Petroleum Recovery Services

4310 Amsterdam St.

North Charleston, SC 29418

843-225-1777

Sample Taken From:

Sample ID:

PO: WO: 952-01-100DT 952-01-100DT

632488

MUSC-University - Pre

Sample Collection Date:

07/2/2019

Date Received: Date Released:

07/16/2019 07/19/2019

Component Make:

Component Model:

SBT 600 g

ULSD

Tank Capacity:

Quantity in Tank:

Petroleum Recovery Pkg.

Test Package: Type of Fuel:

Serial Number:

lest	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 Water and Sediment 0.05 maximum (% volume) Water by Karl Fischer

report in ppm

ASTM D4176-04 **ASTM D2709** ASTM D6304-16 Clear, Light Sediment, Some **Particles**

0.01 116

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.