



Fuel Analysis Report

North America: +1-866-211-7420

FAIL

Sample does not meet ASTM specifications for fuel type designated.

Account Information		Component Information		Sample Information	
Account Number: CRMNTN-0001-2862 Company Name: CULLEN DARNELL Contact: SMITTY Address: 1119 W BROADMOOR LOVELAND, CO 80537 US Phone Number: 970-667-7538		Unit #: 201475 DF Serial #: 46165541 Fuel Type: #2 DIESEL FUEL ULTRALOW SULFUR Manufacturer: Model: Application: TRANSPORTATION Tank Capacity: 130 gal		Tracking Number: 16099L03194 Lab Number: S-662577 Lab Location: Salt Lake City Data Analyst: RNF Sampled: 19-May-2016 Received: 23-May-2016 Completed: 02-Jun-2016	
Filter Information		Miscellaneous Information			
Filter Change: No Filter Type: Information Requested Micron Rating: 0		Work Order #: 201475			
Comments	Particle count results exceed acceptable limits. Increased injector and fuel pump WEAR may result. PARTICLE COUNT RESULTS suggest the use of PORTABLE FILTRATION to improve SYSTEM CLEANLINESS; and/or; FILTER CHANGE suggested if not done at sampling time (as applicable). Your note was taken into consideration.				

Test Results

Test Method	Test Name	Result	Min	Max	Elemental Analysis mod. ASTM D5185	Result	Min	Max
ASTM D7220	Sulfur (ppm)				Iron (ppm)			
ASTM D2709	Water and Sediment (%)				Chromium (ppm)			
ASTM D6304C	Water by Karl Fischer (%)	0.002		0.05	Nickel (ppm)			
ASTM D6304C	Water by Karl Fischer (ppm)				Aluminum (ppm)			
Manufacturer	Aerobic Bacteria (Counts)				Copper (ppm)			
Manufacturer	Bacteria (Counts)	0			Lead (ppm)			
Manufacturer	Fungi (Counts)	Negative			Tin (ppm)			
Manufacturer	Mold (Counts)	0			Cadmium (ppm)			
mod. ASTM D6468	Thermal Stability (%)				Silver (ppm)			
mod. ASTM D445	Viscosity 40°C (cSt)				Vanadium (ppm)			
mod. ASTM D445	Viscosity 100 °C (cSt)				Silicon (ppm)			
mod. ASTM D664	Acid Number (mg KOH/g)				Sodium (ppm)			
ASTM D7689	Cloud Point (°C)				Potassium (ppm)			
ASTM D7346	Pour Point (°C)				Titanium (ppm)			
ASTM D6371	Cold Filter Plug Point (°C)				Molybdenum (ppm)			
ASTM D93	Pensky Marten Flash Point (°C)				Antimony (ppm)			
ASTM D86	Distillation Initial Boiling Point (°C)				Manganese (ppm)			
ASTM D86	Distillation 10% Recovered (°C)				Lithium (ppm)			
ASTM D86	Distillation 50% Recovered (°C)				Boron (ppm)			
ASTM D86	Distillation 90% Recovered (°C)				Magnesium (ppm)			
ASTM D867	Distillation Final Boiling Point (°C)				Calcium (ppm)			
ASTM D976	Cetane Index				Barium (ppm)			
ASTM D4052	API Gravity				Phosphorous (ppm)			
ASTM D4052	Density (g/mL)				Zinc (ppm)			
ASTM D4052	Specific Gravity							
ASTM D4868	BTU Per Gallon (BTU/gal)							
ASTM D4868	BTU Per Pound (BTU/lb)							
ASTM D6079	Lubricity (µm)							
ASTM D130	Copper Corrosion							
ASTM D482	Ash Content (mass %)							
ASTM D189	Carbon Residue (%)							
ASTM D7371	% Biodiesel - FAME (%)							
					Particle Count (particles/mL) ISO 4406 & mod. ISO 11500	Result	Min	Max
					ISO Cleanliness Code	20 / 17 / 14	/ /	18 / 16 / 13
					> 4µm	8921		2500
					> 6µm	1201		640
					> 10µm	252		
					> 14µm	96		80
					> 21µm	31		
					> 38µm	6		
					> 70µm	0		
					> 100µm	0		

Comments are advisory only and are based on the assumption that the sample and data submitted are valid. Missing fluid or component information limits the evaluation. No warranty is expressed or implied.