

330 Lee Industrial Blvd Austell, GA 30168 (770) 241-6315 FUEL ANALYSIS REPORT Condition Summary

STATUS: MONITOR

N 4/2/2018

Sample Report

Compartment

FUEL TANK 521 gal

10X

REPORT DATE	LAB CONTROL NUMBER	ANALYST	SAMPLE DATE
4/19/2018	D500-48102-9401	RPB	4/2/2018
WORK ORDER NUMBER	EQUIPMENT	ID / MACHINE SN	JOBSITE / LOCATION
E647595	21	1028	ANNEX 2 BASE TANK

## INTERPRETATION

Trace amount of flake like scale or rust precipitates. Fuel slightly cloudy suggesting probable suspended or soluble water. Trace metals iron and boron indicating rust and possible fuel additive (biocide). Millipore filter showed tan / brown discoloration. Moderate number of shiny metallic particles, fairly large rust or scale particles and black oxides. Recommend bulk fuel filtration / coalescer to remove particulate debris and moisture. Inspect fuel filters for visible debris, change filter / screen as necessary. Biodiesel blends under long term storage conditions may be susceptible to oxidative degradation and free glycerin build up. Exposure to heat, air, metals, water and light exposure contributes to degradation of fuel quality. Fuel stabilizer and antioxidant additives can be effective at stabilizing biodiesel blends.

Test Description	Results			
Biodiesel %	3.6			
Appearance / Color	RED, SLIGHT CLOUDY			
Precipitate Amount	TRACE			
Precipitate Appearance	FLAKES			
Precipitate Color-Description	RUST			
Clear & Bright	NOT CLEAR & BRIGHT			
Free Water %Vol.	<0.05			
Odor	NORMAL			
Haze Rating (1-6)	1			
Color & Particle Assessment	B6-F			
Particulate Contamination, mg/L	15.0			
Particle Count - ISO CODE	15/11			
Microbial Contamination	NEGATIVE			
Bacteria Count	<ldl< td=""></ldl<>			
Fungus Count	<ldl< td=""></ldl<>			
ICP Motals PPM				

Cu Ag

0

0

Si

0

Photomicrograph 1 1 sq = 1.8 mm 0.80 μm

Photomicrographs showing moderate discoloration, metallic particles, rust, scale and black oxides.

Magnification

B Na K Mo P Zn Ca Mg Ti

2

Pb | Sn

0

Fe | Cr

0

Al Ni

0

Accuracy of test data and interpretation is dependent upon a sample representative of the condition of the compartment sampled, and complete and concise information regarding the equipment and sample.

