



UNIVERSAL
ENVIRONMENTAL
SERVICES

*From the
Tank*

Certificate Of Analysis

Date: Friday, March 23, 2018

Product: Reprocessed Fuel Oil #5

Sample #: 2018-03-157

Division:

Tank Number: Robersonville Meat and Packaging 1

Inspection	Units	Method	Actual	PTC Refinery Limits	On Spec Fuel Limits
Sulfur	%	SW 846-9075	1.09%	0.50	0.50
Halogens (XRF)	ppm	SW 846-9075	288	1000 MAX	1000 MAX
Polychlorinated Biphenyls	ppm	ASTM D6160	ND	ND	ND
Lead (ICP)	ppm	ASTM D5185	BDL	100 MAX	100 MAX
Arsenic (ICP)	ppm	ASTM D5185	BDL	5 MAX	5 MAX
Cadmium (ICP)	ppm	ASTM D5185	BDL	2 MAX	2 MAX
Chromium (ICP)	ppm	ASTM D5185	BDL	10 MAX	10 MAX
Nickel (ICP)	ppm	ASTM D5185	33.40	NOT SPECIFIED	NOT SPECIFIED
Zinc (ICP)	ppm	ASTM D5185	BDL	NOT SPECIFIED	NOT SPECIFIED
Aluminum (ICP)	ppm	ASTM D5185	2.08	75 MAX	NOT SPECIFIED
Iron (ICP)	ppm	ASTM D5185	10.40	125 MAX	NOT SPECIFIED
Silicon (ICP)	ppm	ASTM D5185	11.90	150 MAX	NOT APPLICABLE
Flash Point, Closed Cup	F	ASTM D3828	>140	140 MIN	100 MIN
Heat of Combustion	BTU/lb	LOP-105	18,011	NOT APPLICABLE	REPORT
API Gravity @ 60F	-	ASTM D287	20.3	27-33	NOT APPLICABLE
Density (PPG)	lbs/gal	ASTM D287	7.773	REPORT	REPORT
Viscosity @ 40C	cST	ASTM D445	42.42	32-120	NOT APPLICABLE
Lux Test	-	LOP-107	1	1	NOT APPLICABLE
Total Acid Number	mg/g	ASTM D664	1.45	5.0 MAX	REPORT
Ash, %	wt%	ASTM D482-91	0.05	0.9 MAX	0.9 MAX
Glycol %	vol%	LOP-117	0.10%	1.0 MAX	REPORT
Bottoms By Centrifuge	vol%	ASTM D1796	0.00	NOT APPLICABLE	NOT APPLICABLE
Water By Centrifuge	vol%	ASTM D1796	0.00	NOT APPLICABLE	NOT APPLICABLE
Sediment By Centrifuge	vol%	ASTM D1796	50.00	1.5 MAX	1.5 MAX
Total Sediment Number	vol%	ASTM D1796	50.00	1.5 MAX	1.5 MAX
Water By Distillation, %	vol%	ASTM D95	0.0	6.0 MAX	6.0 MAX

BDL - Below Detection Limit

ND - None Detected

Auto Approval for PTC Tanks:	Yes/No
For transfer to PTC Refinery:	NA

Approved For:	Yes/No
PTC Refinery	No
On Spec Fuel	No

Authorized By: Ashley N. Kendrick

411 Dividend Drive
Peachtree City, GA 30269
770-486-8816



UNIVERSAL ENVIRONMENTAL SERVICES

Certificate Of Analysis

Date: Friday, March 23, 2018

Product: Reprocessed Fuel Oil #5

Sample #: 2018-03-158

Division:

Tank Number: Robersonville Meat and Packaging 2

Inspection	Units	Method	Actual	PTC Refinery Limits	On Spec Fuel Limits
Sulfur	%	SW 846-9075	1.05%	0.50	0.50
Halogens (XRF)	ppm	SW 846-9075	250	1000 MAX	1000 MAX
Polychlorinated Biphenyls	ppm	ASTM D6160	ND	ND	ND
Lead (ICP)	ppm	ASTM D5185	0.01	100 MAX	100 MAX
Arsenic (ICP)	ppm	ASTM D5185	BDL	5 MAX	5 MAX
Cadmium (ICP)	ppm	ASTM D5185	BDL	2 MAX	2 MAX
Chromium (ICP)	ppm	ASTM D5185	BDL	10 MAX	10 MAX
Nickel (ICP)	ppm	ASTM D5185	29.70	NOT SPECIFIED	NOT SPECIFIED
Zinc (ICP)	ppm	ASTM D5185	BDL	NOT SPECIFIED	NOT SPECIFIED
Aluminum (ICP)	ppm	ASTM D5185	0.21	75 MAX	NOT SPECIFIED
Iron (ICP)	ppm	ASTM D5185	1.31	125 MAX	NOT SPECIFIED
Silicon (ICP)	ppm	ASTM D5185	8.15	150 MAX	NOT APPLICABLE
Flash Point, Closed Cup	F	ASTM D3828	>140	140 MIN	100 MIN
Heat of Combustion	BTU/lb	LOP-105	18,027	NOT APPLICABLE	REPORT
API Gravity @ 60F	-	ASTM D287	20.4	27-33	NOT APPLICABLE
Density (PPG)	lbs/gal	ASTM D287	7.766	REPORT	REPORT
Viscosity @ 40C	cST	ASTM D445	32.41	32-120	NOT APPLICABLE
Lux Test	-	LOP-107	1	1	NOT APPLICABLE
Total Acid Number	mg/g	ASTM D664	1.61	5.0 MAX	REPORT
Ash, %	wt%	ASTM D482-91	0.05	0.9 MAX	0.9 MAX
Glycol %	vol%	LOP-117	0.01%	1.0 MAX	REPORT
Bottoms By Centrifuge	vol%	ASTM D1796	0.00	NOT APPLICABLE	NOT APPLICABLE
Water By Centrifuge	vol%	ASTM D1796	0.00	NOT APPLICABLE	NOT APPLICABLE
Sediment By Centrifuge	vol%	ASTM D1796	50.00	1.5 MAX	1.5 MAX
Total Sediment Number	vol%	ASTM D1796	50.00	1.5 MAX	1.5 MAX
Water By Distillation, %	vol%	ASTM D95	0.0	6.0 MAX	6.0 MAX

BDL - Below Detection Limit
ND - None Detected

Auto Approval for PTC Tanks:	Yes/No
For transfer to PTC Refinery:	NA

Approved For:	Yes/No
PTC Refinery	No
On Spec Fuel	No

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