



Certificate Of Analysis

Date: Tuesday, December 22, 2015
Product: Used Motor Oil (66346-111942)
Lot #: OR15-1435

Customer: Synergy (Winter Haven)
Lab Number: 4144-15
Vessel Number: UTLX500101
Results Status: PQ PASS

Inspection	Unit	Method	Limits	Actual
Kinematic Viscosity at 40° C	cSt	ASTM D7279	32 - 120	52.69
Polychlorinated Biphenyls	ug/g	SW 846/USEPA 8082	ND	ND
Halogens	ppm	ASTM D6052	800 Max	107
Styrene	ppm	GC/HS	100 Max	7
Karl Fischer, %	wt%	ASTM E203	5 Max	2.93
Glycol	%	GC-HS	1.5 Max	1.1
Sediment by Centrifuge	vol%	ASTM D1796	1.5 Max	1.2
Caustic Coagulation		OHLI-0708	Pass	Pass
Specific Gravity at 60°F		ASTM D4052	0.8654 - 0.8984	0.8721
API Gravity at 60° F	-	ASTM D4052	26 - 32	30.75
Density (Pounds/Gallon)	lbs/gal	ASTM D4052	Report	7.271
Flash Point, Closed Cup Seta	F	ASTM D3278	Pass	Pass
Arsenic	ppm	ASTM D5185	5 Max	0.3
Cadmium	ppm	ASTM D5185	2 Max	0.3
Calcium	ppm	ASTM D5185	3500 Max	1456
Chromium	ppm	ASTM D5185	10 Max	0.6
Iron	ppm	ASTM D5185	150 Max	25
Lead	ppm	ASTM D5185	100 Max	3
Phosphorus	ppm	ASTM D5158	1100 Max	555
Silicon	ppm	ASTM D5185	150 Max	41
Sodium	ppm	ASTM D5185	250 Max	91
Sulfur	wt%	D5185/6052	0.5 Max	0.195
Vanadium	ppm	ASTM D5185	10 Max	0.1
Zinc	ppm	ASTM D5185	1500 Max	595

NR - Not Required

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5000 River Road
Marrero, LA 70072
PHONE: 504-349-7200
FAX: 504-349-7225



Certificate Of Analysis

Date: Wednesday, January 06, 2016
Product: Used Motor Oil (66346-111942)
Lot #: OR15-1435

Customer: Synergy
Lab Number: 0035-16
Vessel Number: UTLX500101
Results Status: Pass

Inspection	Unit	Method	Limits	Actual
Kinematic Viscosity at 40° C	cSt	ASTM D7279	32 - 120	55.48
Polychlorinated Biphenyls	ug/g	SW 846/USEPA 8082	ND	ND
Halogens	ppm	ASTM D6052	800 Max	87
Styrene	ppm	GC/HS	100 Max	10.00
Karl Fischer, %	wt%	ASTM E203	5 Max	5.07
Glycol	%	GC-HS	1.5 Max	1.60
Sediment by Centrifuge	vol%	ASTM D1796	1.5 Max	1.00
Caustic Coagulation		OHLI-0708	Pass	Pass
Specific Gravity at 60°F		ASTM D4052	0.8654 - 0.8984	0.8758
API Gravity at 60° F	-	ASTM D4052	26 - 32	30.07
Density (Pounds/Gallon)	lbs/gal	ASTM D4052	Report	7.302
Flash Point, Closed Cup Seta	F	ASTM D3278	Pass	Pass
Arsenic	ppm	ASTM D5185	5 Max	0.0
Cadmium	ppm	ASTM D5185	2 Max	0.2
Calcium	ppm	ASTM D5185	3500 Max	1757
Chromium	ppm	ASTM D5185	10 Max	0.8
Iron	ppm	ASTM D5185	150 Max	40
Lead	ppm	ASTM D5185	100 Max	10
Phosphorus	ppm	ASTM D5158	1100 Max	661
Silicon	ppm	ASTM D5185	150 Max	57
Sodium	ppm	ASTM D5185	250 Max	125
Sulfur	wt%	D5185/6052	0.5 Max	0.2160
Vanadium	ppm	ASTM D5185	10 Max	0
Zinc	ppm	ASTM D5185	1500 Max	748

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PHONE: 504-349-7200
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Certificate Of Analysis

Date: Tuesday, December 22, 2015
Product: Used Motor Oil (66346-111942)
Lot #: OR15-1436

Customer: Synergy (Winter Haven)
Lab Number: 4145-15
Vessel Number: GATX025879
Results Status: PQ PASS

Inspection	Unit	Method	Limits	Actual
Kinematic Viscosity at 40° C	cSt	ASTM D7279	32 - 120	54.57
Polychlorinated Biphenyls	ug/g	SW 846/USEPA 8082	ND	ND
Halogens	ppm	ASTM D6052	800 Max	104
Styrene	ppm	GC/HS	100 Max	11
Karl Fischer, %	wt%	ASTM E203	5 Max	4.71
Glycol	%	GC-HS	1.5 Max	1.5
Sediment by Centrifuge	vol%	ASTM D1796	1.5 Max	1
Caustic Coagulation		OHFI-0708	Pass	Pass
Specific Gravity at 60°F		ASTM D4052	0.8654 - 0.8984	0.8726
API Gravity at 60° F	-	ASTM D4052	26 - 32	30.66
Density (Pounds/Gallon)	lbs/gal	ASTM D4052	Report	7.275
Flash Point, Closed Cup Seta	F	ASTM D3278	Pass	Pass
Arsenic	ppm	ASTM D5185	5 Max	0.1
Cadmium	ppm	ASTM D5185	2 Max	0.1
Calcium	ppm	ASTM D5185	3500 Max	1294
Chromium	ppm	ASTM D5185	10 Max	0.5
Iron	ppm	ASTM D5185	150 Max	26
Lead	ppm	ASTM D5185	100 Max	4
Phosphorus	ppm	ASTM D5158	1100 Max	470
Silicon	ppm	ASTM D5185	150 Max	32
Sodium	ppm	ASTM D5185	250 Max	127
Sulfur	wt%	D5185/6052	0.5 Max	0.164
Vanadium	ppm	ASTM D5185	10 Max	0.1
Zinc	ppm	ASTM D5185	1500 Max	492

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Certificate Of Analysis

Date: Tuesday, January 05, 2016
Product: Used Motor Oil (66346-111942)
Lot #: OR15-1436

Customer: Synergy
Lab Number: 0020-16
Vessel Number: GATX025879
Results Status: Pass

Inspection	Unit	Method	Limits	Actual
Kinematic Viscosity at 40° C	cSt	ASTM D7279	32 - 120	54.67
Polychlorinated Biphenyls	ug/g	SW 846/USEPA 8082	ND	ND
Halogens	ppm	ASTM D6052	800 Max	85
Styrene	ppm	GC/HS	100 Max	12.00
Karl Fischer, %	wt%	ASTM E203	5 Max	4.35
Glycol	%	GC-HS	1.5 Max	1.30
Sediment by Centrifuge	vol%	ASTM D1796	1.5 Max	1.00
Caustic Coagulation		OHFI-0708	Pass	Pass
Specific Gravity at 60°F		ASTM D4052	0.8654 - 0.8984	0.8741
API Gravity at 60° F	-	ASTM D4052	26 - 32	30.38
Density (Pounds/Gallon)	lbs/gal	ASTM D4052	Report	7.288
Flash Point, Closed Cup Seta	F	ASTM D3278	Pass	Pass
Arsenic	ppm	ASTM D5185	5 Max	0.0
Cadmium	ppm	ASTM D5185	2 Max	0.0
Calcium	ppm	ASTM D5185	3500 Max	1758
Chromium	ppm	ASTM D5185	10 Max	0.7
Iron	ppm	ASTM D5185	150 Max	35
Lead	ppm	ASTM D5185	100 Max	5
Phosphorus	ppm	ASTM D5158	1100 Max	647
Silicon	ppm	ASTM D5185	150 Max	39
Sodium	ppm	ASTM D5185	250 Max	121
Sulfur	wt%	D5185/6052	0.5 Max	0.2200
Vanadium	ppm	ASTM D5185	10 Max	0
Zinc	ppm	ASTM D5185	1500 Max	731

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Marrero, LA 70072
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Certificate Of Analysis

Date: Friday, February 05, 2016
Product: Used Motor Oil (66346-111942)
Lot #: VR16-0134

Customer: Synergy (Winter Haven)
Lab Number: 0364-16
Vessel Number: UTLX201154
Results Status: *PQ Pass*

Inspection	Unit	Method	Limits	Actual
Kinematic Viscosity at 40° C	cSt	ASTM D7279	32 - 120	53.66
Polychlorinated Biphenyls	ug/g	SW 846/USEPA 8082	ND	ND
Halogens	ppm	ASTM D6052	800 Max	55
Styrene	ppm	GC/HS	100 Max	8
Karl Fischer, %	wt%	ASTM E203	5 Max	3.77
Glycol	%	GC-HS	1.5 Max	0.7
Sediment by Centrifuge	vol%	ASTM D1796	1.5 Max	1
Caustic Coagulation		OHLI-0708	Pass	Pass
Specific Gravity at 60°F		ASTM D4052	0.8654 - 0.8984	0.8698
API Gravity at 60° F	-	ASTM D4052	26 - 32	31.18
Density (Pounds/Gallon)	lbs/gal	ASTM D4052	Report	7.252
Flash Point, Closed Cup Seta	F	ASTM D3278	Pass	Pass
Arsenic	ppm	ASTM D5185	5 Max	2.7
Cadmium	ppm	ASTM D5185	2 Max	0.1
Calcium	ppm	ASTM D5185	3500 Max	1991
Chromium	ppm	ASTM D5185	10 Max	0.7
Iron	ppm	ASTM D5185	150 Max	34
Lead	ppm	ASTM D5185	100 Max	7
Phosphorus	ppm	ASTM D5158	1100 Max	734
Silicon	ppm	ASTM D5185	150 Max	46
Sodium	ppm	ASTM D5185	250 Max	112
Sulfur	wt%	D5185/6052	0.5 Max	0.249
Vanadium	ppm	ASTM D5185	10 Max	0.1
Zinc	ppm	ASTM D5185	1500 Max	841

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Certificate Of Analysis

Date: Friday, February 19, 2016
Product: Used Motor Oil (66346-111942)
Lot #: VR16-0134

Customer: Synergy
Lab Number: 0535-16
Vessel Number: UTLX201154
Results Status: Pass

Inspection	Unit	Method	Limits	Actual
Kinematic Viscosity at 40° C	cSt	ASTM D7279	32 - 120	54.53
Polychlorinated Biphenyls	ug/g	SW 846/USEPA 8082	ND	ND
Halogens	ppm	ASTM D6052	800 Max	55
Styrene	ppm	GC/HS	100 Max	8.00
Karl Fischer, %	wt%	ASTM E203	5 Max	5.09
Glycol	%	GC-HS	1.5 Max	0.70
Sediment by Centrifuge	vol%	ASTM D1796	1.5 Max	0.90
Caustic Coagulation		OHLI-0708	Pass	Pass
Specific Gravity at 60°F		ASTM D4052	0.8654 - 0.8984	0.8722
API Gravity at 60° F	-	ASTM D4052	26 - 32	30.73
Density (Pounds/Gallon)	lbs/gal	ASTM D4052	Report	7.272
Flash Point, Closed Cup Seta	F	ASTM D3278	Pass	Pass
Arsenic	ppm	ASTM D5185	5 Max	0.0
Cadmium	ppm	ASTM D5185	2 Max	0.0
Calcium	ppm	ASTM D5185	3500 Max	1699
Chromium	ppm	ASTM D5185	10 Max	0.7
Iron	ppm	ASTM D5185	150 Max	31
Lead	ppm	ASTM D5185	100 Max	6
Phosphorus	ppm	ASTM D5158	1100 Max	654
Silicon	ppm	ASTM D5185	150 Max	32
Sodium	ppm	ASTM D5185	250 Max	117
Sulfur	wt%	D5185/6052	0.5 Max	0.2210
Vanadium	ppm	ASTM D5185	10 Max	0
Zinc	ppm	ASTM D5185	1500 Max	730

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Certificate Of Analysis

Date: Friday, February 05, 2016
Product: Used Motor Oil (66346-111942)
Lot #: VR16-0135

Customer: Synergy (Winter Haven)
Lab Number: 0365-16
Vessel Number: UTLX201844
Results Status: PQ PASS

Inspection	Unit	Method	Limits	Actual
Kinematic Viscosity at 40° C	cSt	ASTM D7279	32 - 120	55.23
Polychlorinated Biphenyls	ug/g	SW 846/USEPA 8082	ND	ND
Halogens	ppm	ASTM D6052	800 Max	43
Styrene	ppm	GC/HS	100 Max	7
Karl Fischer, %	wt%	ASTM E203	5 Max	1.54
Glycol	%	GC-HS	1.5 Max	0.3
Sediment by Centrifuge	vol%	ASTM D1796	1.5 Max	0.4
Caustic Coagulation		OHLI-0708	Pass	Pass
Specific Gravity at 60°F		ASTM D4052	0.8654 - 0.8984	0.8688
API Gravity at 60° F	-	ASTM D4052	26 - 32	31.37
Density (Pounds/Gallon)	lbs/gal	ASTM D4052	Report	7.243
Flash Point, Closed Cup Seta	F	ASTM D3278	Pass	Pass
Arsenic	ppm	ASTM D5185	5 Max	0.3
Cadmium	ppm	ASTM D5185	2 Max	0.1
Calcium	ppm	ASTM D5185	3500 Max	1954
Chromium	ppm	ASTM D5185	10 Max	0.8
Iron	ppm	ASTM D5185	150 Max	30
Lead	ppm	ASTM D5185	100 Max	8
Phosphorus	ppm	ASTM D5158	1100 Max	792
Silicon	ppm	ASTM D5185	150 Max	24
Sodium	ppm	ASTM D5185	250 Max	195
Sulfur	wt%	D5185/6052	0.5 Max	0.306
Vanadium	ppm	ASTM D5185	10 Max	0.2
Zinc	ppm	ASTM D5185	1500 Max	931

NR - Not Required

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5000 River Road
Marrero, LA 70072
PHONE: 504-349-7200
FAX: 504-349-7225



Certificate Of Analysis

Date: Friday, February 19, 2016
Product: Used Motor Oil (66346-111942)
Lot #: VR16-0135

Customer: Synergy
Lab Number: 0534-16
Vessel Number: UTLX201844
Results Status: Pass

Inspection	Unit	Method	Limits	Actual
Kinematic Viscosity at 40° C	cSt	ASTM D7279	32 - 120	55.37
Polychlorinated Biphenyls	ug/g	SW 846/USEPA 8082	ND	ND
Halogens	ppm	ASTM D6052	800 Max	43
Styrene	ppm	GC/HS	100 Max	7.00
Karl Fischer, %	wt%	ASTM E203	5 Max	4.45
Glycol	%	GC-HS	1.5 Max	1.00
Sediment by Centrifuge	vol%	ASTM D1796	1.5 Max	0.80
Caustic Coagulation		OHLI-0708	Pass	Pass
Specific Gravity at 60°F		ASTM D4052	0.8654 - 0.8984	0.8718
API Gravity at 60° F	-	ASTM D4052	26 - 32	30.80
Density (Pounds/Gallon)	lbs/gal	ASTM D4052	Report	7.269
Flash Point, Closed Cup Seta	F	ASTM D3278	Pass	Pass
Arsenic	ppm	ASTM D5185	5 Max	0.0
Cadmium	ppm	ASTM D5185	2 Max	0.0
Calcium	ppm	ASTM D5185	3500 Max	1740
Chromium	ppm	ASTM D5185	10 Max	0.6
Iron	ppm	ASTM D5185	150 Max	32
Lead	ppm	ASTM D5185	100 Max	7
Phosphorus	ppm	ASTM D5158	1100 Max	666
Silicon	ppm	ASTM D5185	150 Max	35
Sodium	ppm	ASTM D5185	250 Max	114
Sulfur	wt%	D5185/6052	0.5 Max	0.2200
Vanadium	ppm	ASTM D5185	10 Max	0
Zinc	ppm	ASTM D5185	1500 Max	743

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PHONE: 504-349-7200
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Certificate Of Analysis

Date: Friday, February 05, 2016
Product: Used Motor Oil (66346-111942)
Lot #: VR16-0136

Customer: Synergy (Winter Haven)
Lab Number: 0366-16
Vessel Number: UTLX201848
Results Status: PQ PASS

Inspection	Unit	Method	Limits	Actual
Kinematic Viscosity at 40° C	cSt	ASTM D7279	32 - 120	53.82
Polychlorinated Biphenyls	ug/g	SW 846/USEPA 8082	ND	ND
Halogens	ppm	ASTM D6052	800 Max	51
Styrene	ppm	GC/HS	100 Max	12
Karl Fischer, %	wt%	ASTM E203	5 Max	2.86
Glycol	%	GC-HS	1.5 Max	1.6
Sediment by Centrifuge	vol%	ASTM D1796	1.5 Max	1.4
Caustic Coagulation		OHLI-0708	Pass	Pass
Specific Gravity at 60°F		ASTM D4052	0.8654 - 0.8984	0.8694
API Gravity at 60° F	-	ASTM D4052	26 - 32	31.26
Density (Pounds/Gallon)	lbs/gal	ASTM D4052	Report	7.248
Flash Point, Closed Cup Seta	F	ASTM D3278	Pass	Pass
Arsenic	ppm	ASTM D5185	5 Max	3.2
Cadmium	ppm	ASTM D5185	2 Max	0.1
Calcium	ppm	ASTM D5185	3500 Max	1791
Chromium	ppm	ASTM D5185	10 Max	0.7
Iron	ppm	ASTM D5185	150 Max	29
Lead	ppm	ASTM D5185	100 Max	7
Phosphorus	ppm	ASTM D5158	1100 Max	692
Silicon	ppm	ASTM D5185	150 Max	33
Sodium	ppm	ASTM D5185	250 Max	89
Sulfur	wt%	D5185/6052	0.5 Max	0.246
Vanadium	ppm	ASTM D5185	10 Max	0.1
Zinc	ppm	ASTM D5185	1500 Max	804

NR - Not Required

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PHONE: 504-349-7200
FAX: 504-349-7225



Certificate Of Analysis

Date: Friday, February 19, 2016
Product: Used Motor Oil (66346-111942)
Lot #: VR16-0136

Customer: Synergy
Lab Number: 0533-16
Vessel Number: UTLX201848
Results Status: Pass

Inspection	Unit	Method	Limits	Actual
Kinematic Viscosity at 40° C	cSt	ASTM D7279	32 - 120	57.38
Polychlorinated Biphenyls	ug/g	SW 846/USEPA 8082	ND	ND
Halogens	ppm	ASTM D6052	800 Max	51
Styrene	ppm	GC/HS	100 Max	12.00
Karl Fischer, %	wt%	ASTM E203	5 Max	5.19
Glycol	%	GC-HS	1.5 Max	1.60
Sediment by Centrifuge	vol%	ASTM D1796	1.5 Max	0.90
Caustic Coagulation		OHLI-0708	Pass	Pass
Specific Gravity at 60°F		ASTM D4052	0.8654 - 0.8984	0.8746
API Gravity at 60° F	-	ASTM D4052	26 - 32	30.29
Density (Pounds/Gallon)	lbs/gal	ASTM D4052	Report	7.292
Flash Point, Closed Cup Seta	F	ASTM D3278	Pass	Pass
Arsenic	ppm	ASTM D5185	5 Max	0.7
Cadmium	ppm	ASTM D5185	2 Max	0.0
Calcium	ppm	ASTM D5185	3500 Max	1786
Chromium	ppm	ASTM D5185	10 Max	0.7
Iron	ppm	ASTM D5185	150 Max	35
Lead	ppm	ASTM D5185	100 Max	7
Phosphorus	ppm	ASTM D5158	1100 Max	650
Silicon	ppm	ASTM D5185	150 Max	38
Sodium	ppm	ASTM D5185	250 Max	112
Sulfur	wt%	D5185/6052	0.5 Max	0.2270
Vanadium	ppm	ASTM D5185	10 Max	0
Zinc	ppm	ASTM D5185	1500 Max	739

NR - Not Required

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2/19/2016 3:25:53 PM

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Marrero, LA 70072
PHONE: 504-349-7200
FAX: 504-349-7225



Certificate Of Analysis

Date: Monday, September 12, 2016
Product: Used Motor Oil (66346-111942)
Lot #: VR16-1081

Customer: Synergy (Winter Haven)
Lab Number: 3230-16
Vessel Number: UTLX201154
Results Status: PQ PASS

Inspection	Unit	Method	Limits	Actual
Kinematic Viscosity at 40° C	cSt	ASTM D7279	32 - 120	55.98
Polychlorinated Biphenyls	ug/g	SW 846/USEPA 8082	ND	ND
Halogens	ppm	ASTM D6052	800 Max	37
Styrene	ppm	GC/HS	100 Max	0.2
Karl Fischer, %	wt%	ASTM E203	5 Max	3.15
Glycol	%	GC-HS	1.5 Max	0.4
Sediment by Centrifuge	vol%	ASTM D1796	1.5 Max	0.2
Caustic Coagulation		OHLI-0708	Pass	Pass
Specific Gravity at 60°F		ASTM D4052	0.8654 - 0.8984	0.8692
API Gravity at 60° F	-	ASTM D4052	26 - 32	31.29
Density (Pounds/Gallon)	lbs/gal	ASTM D4052	Report	7.247
Flash Point, Closed Cup Seta	F	ASTM D3278	Pass	Pass
Arsenic	ppm	ASTM D5185	5 Max	0.2
Cadmium	ppm	ASTM D5185	2 Max	0
Calcium	ppm	ASTM D5185	3500 Max	2009
Chromium	ppm	ASTM D5185	10 Max	0.7
Iron	ppm	ASTM D5185	150 Max	22
Lead	ppm	ASTM D5185	100 Max	6
Phosphorus	ppm	ASTM D5158	1100 Max	679
Silicon	ppm	ASTM D5185	150 Max	33
Sodium	ppm	ASTM D5185	250 Max	79
Sulfur	wt%	D5185/6052	0.5 Max	0.222
Vanadium	ppm	ASTM D5185	10 Max	0
Zinc	ppm	ASTM D5185	1500 Max	817

NR - Not Required

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Marrero, LA 70072
PHONE: 504-349-7200
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Certificate Of Analysis

Date: Thursday, September 29, 2016
Product: Used Motor Oil (66346-111942)
Lot #: VR16-1081

Customer: Synergy
Lab Number: 3486-16
Vessel Number: UTLX201154
Results Status: Pass

Inspection	Unit	Method	Limits	Actual
Kinematic Viscosity at 40° C	cSt	ASTM D7279	32 - 120	56.47
Polychlorinated Biphenyls	ug/g	SW 846/USEPA 8082	ND	ND
Halogens	ppm	ASTM D6052	800 Max	95
Styrene	ppm	GC/HS	100 Max	0.00
Karl Fischer, %	wt%	ASTM E203	5 Max	6.39
Glycol	%	GC-HS	1.5 Max	1.20
Sediment by Centrifuge	vol%	ASTM D1796	1.5 Max	0.50
Caustic Coagulation		OHFI-0708	Pass	Pass
Specific Gravity at 60°F		ASTM D4052	0.8654 - 0.8984	0.8785
API Gravity at 60° F	-	ASTM D4052	26 - 32	29.56
Density (Pounds/Gallon)	lbs/gal	ASTM D4052	Report	7.324
Flash Point, Closed Cup Seta	F	ASTM D3278	Pass	Pass
Arsenic	ppm	ASTM D5185	5 Max	0.0
Cadmium	ppm	ASTM D5185	2 Max	0.2
Calcium	ppm	ASTM D5185	3500 Max	1844
Chromium	ppm	ASTM D5185	10 Max	0.7
Iron	ppm	ASTM D5185	150 Max	54
Lead	ppm	ASTM D5185	100 Max	12
Phosphorus	ppm	ASTM D5158	1100 Max	779
Silicon	ppm	ASTM D5185	150 Max	68
Sodium	ppm	ASTM D5185	250 Max	123
Sulfur	wt%	D5185/6052	0.5 Max	0.2590
Vanadium	ppm	ASTM D5185	10 Max	0
Zinc	ppm	ASTM D5185	1500 Max	943

NR - Not Required

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9/29/2016 10:23:31 AM

5000 River Road
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PHONE: 504-349-7200
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Certificate Of Analysis

Date: Monday, September 12, 2016

Customer: Synergy (Winter Haven)

Product: Used Motor Oil (66346-111942)

Lab Number: 3231-16

Lot #: VR16-1082

Vessel Number: UTLX500007

Results Status: PQ PASS

Inspection	Unit	Method	Limits	Actual
Kinematic Viscosity at 40° C	cSt	ASTM D7279	32 - 120	52
Polychlorinated Biphenyls	ug/g	SW 846/USEPA 8082	ND	ND
Halogens	ppm	ASTM D6052	800 Max	59
Styrene	ppm	GC/HS	100 Max	0
Karl Fischer, %	wt%	ASTM E203	5 Max	5.59
Glycol	%	GC-HS	1.5 Max	1.1
Sediment by Centrifuge	vol%	ASTM D1796	1.5 Max	1
Caustic Coagulation		OHFI-0708	Pass	Pass
Specific Gravity at 60°F		ASTM D4052	0.8654 - 0.8984	0.8728
API Gravity at 60° F	-	ASTM D4052	26 - 32	30.63
Density (Pounds/Gallon)	lbs/gal	ASTM D4052	Report	7.277
Flash Point, Closed Cup Seta	F	ASTM D3278	Pass	Pass
Arsenic	ppm	ASTM D5185	5 Max	0
Cadmium	ppm	ASTM D5185	2 Max	0
Calcium	ppm	ASTM D5185	3500 Max	1813
Chromium	ppm	ASTM D5185	10 Max	0.7
Iron	ppm	ASTM D5185	150 Max	34
Lead	ppm	ASTM D5185	100 Max	9
Phosphorus	ppm	ASTM D5158	1100 Max	684
Silicon	ppm	ASTM D5185	150 Max	46
Sodium	ppm	ASTM D5185	250 Max	123
Sulfur	wt%	D5185/6052	0.5 Max	0.224
Vanadium	ppm	ASTM D5185	10 Max	0
Zinc	ppm	ASTM D5185	1500 Max	780

NR - Not Required

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5000 River Road
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PHONE: 504-349-7200
FAX: 504-349-7225



Certificate Of Analysis

Date: Thursday, September 29, 2016
Product: Used Motor Oil (66346-111942)
Lot #: VR16-1082

Customer: Synergy
Lab Number: 3484-16
Vessel Number: UTLX500007
Results Status: Pass

Inspection	Unit	Method	Limits	Actual
Kinematic Viscosity at 40° C	cSt	ASTM D7279	32 - 120	50.00
Polychlorinated Biphenyls	ug/g	SW 846/USEPA 8082	ND	ND
Halogens	ppm	ASTM D6052	800 Max	65
Styrene	ppm	GC/HS	100 Max	0.00
Karl Fischer, %	wt%	ASTM E203	5 Max	3.99
Glycol	%	GC-HS	1.5 Max	0.70
Sediment by Centrifuge	vol%	ASTM D1796	1.5 Max	0.30
Caustic Coagulation		OHLI-0708	Pass	Pass
Specific Gravity at 60°F		ASTM D4052	0.8654 - 0.8984	0.8717
API Gravity at 60° F	-	ASTM D4052	26 - 32	30.83
Density (Pounds/Gallon)	lbs/gal	ASTM D4052	Report	7.267
Flash Point, Closed Cup Seta	F	ASTM D3278	Pass	Pass
Arsenic	ppm	ASTM D5185	5 Max	0.0
Cadmium	ppm	ASTM D5185	2 Max	0.4
Calcium	ppm	ASTM D5185	3500 Max	1904
Chromium	ppm	ASTM D5185	10 Max	1.0
Iron	ppm	ASTM D5185	150 Max	37
Lead	ppm	ASTM D5185	100 Max	12
Phosphorus	ppm	ASTM D5158	1100 Max	818
Silicon	ppm	ASTM D5185	150 Max	44
Sodium	ppm	ASTM D5185	250 Max	83
Sulfur	wt%	D5185/6052	0.5 Max	0.2600
Vanadium	ppm	ASTM D5185	10 Max	0
Zinc	ppm	ASTM D5185	1500 Max	1001

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Certificate Of Analysis

Date: Monday, September 12, 2016

Customer: Synergy (Winter Haven)

Product: Used Motor Oil (66346-111942)

Lab Number: 3232-16

Lot #: VR16-1083

Vessel Number: PROX046077

Results Status: PQ PASS

Inspection	Unit	Method	Limits	Actual
Kinematic Viscosity at 40° C	cSt	ASTM D7279	32 - 120	52.3
Polychlorinated Biphenyls	ug/g	SW 846/USEPA 8082	ND	ND
Halogens	ppm	ASTM D6052	800 Max	62
Styrene	ppm	GC/HS	100 Max	0
Karl Fischer, %	wt%	ASTM E203	5 Max	4.45
Glycol	%	GC-HS	1.5 Max	1.1
Sediment by Centrifuge	vol%	ASTM D1796	1.5 Max	0.9
Caustic Coagulation		OHLI-0708	Pass	Pass
Specific Gravity at 60°F		ASTM D4052	0.8654 - 0.8984	0.8712
API Gravity at 60° F	-	ASTM D4052	26 - 32	30.92
Density (Pounds/Gallon)	lbs/gal	ASTM D4052	Report	7.263
Flash Point, Closed Cup Seta	F	ASTM D3278	Pass	Pass
Arsenic	ppm	ASTM D5185	5 Max	0.1
Cadmium	ppm	ASTM D5185	2 Max	0
Calcium	ppm	ASTM D5185	3500 Max	1832
Chromium	ppm	ASTM D5185	10 Max	0.9
Iron	ppm	ASTM D5185	150 Max	38
Lead	ppm	ASTM D5185	100 Max	13
Phosphorus	ppm	ASTM D5158	1100 Max	690
Silicon	ppm	ASTM D5185	150 Max	44
Sodium	ppm	ASTM D5185	250 Max	124
Sulfur	wt%	D5185/6052	0.5 Max	0.225
Vanadium	ppm	ASTM D5185	10 Max	0
Zinc	ppm	ASTM D5185	1500 Max	690

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Certificate Of Analysis

Date: Thursday, September 29, 2016
Product: Used Motor Oil (66346-111942)
Lot #: VR16-1083

Customer: Synergy
Lab Number: 3485-16
Vessel Number: PROX046077
Results Status: Pass

Inspection	Unit	Method	Limits	Actual
Kinematic Viscosity at 40° C	cSt	ASTM D7279	32 - 120	50.13
Polychlorinated Biphenyls	ug/g	SW 846/USEPA 8082	ND	ND
Halogens	ppm	ASTM D6052	800 Max	64
Styrene	ppm	GC/HS	100 Max	0.00
Karl Fischer, %	wt%	ASTM E203	5 Max	3.21
Glycol	%	GC-HS	1.5 Max	0.80
Sediment by Centrifuge	vol%	ASTM D1796	1.5 Max	0.30
Caustic Coagulation		OHLI-0708	Pass	Pass
Specific Gravity at 60°F		ASTM D4052	0.8654 - 0.8984	0.8713
API Gravity at 60° F	-	ASTM D4052	26 - 32	30.91
Density (Pounds/Gallon)	lbs/gal	ASTM D4052	Report	7.264
Flash Point, Closed Cup Seta	F	ASTM D3278	Pass	Pass
Arsenic	ppm	ASTM D5185	5 Max	0.0
Cadmium	ppm	ASTM D5185	2 Max	0.3
Calcium	ppm	ASTM D5185	3500 Max	1968
Chromium	ppm	ASTM D5185	10 Max	0.6
Iron	ppm	ASTM D5185	150 Max	42
Lead	ppm	ASTM D5185	100 Max	16
Phosphorus	ppm	ASTM D5158	1100 Max	819
Silicon	ppm	ASTM D5185	150 Max	42
Sodium	ppm	ASTM D5185	250 Max	85
Sulfur	wt%	D5185/6052	0.5 Max	0.2610
Vanadium	ppm	ASTM D5185	10 Max	0
Zinc	ppm	ASTM D5185	1500 Max	1028

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Certificate Of Analysis

Date: Monday, September 12, 2016

Customer: Synergy (Winter Haven)

Product: Used Motor Oil (66346-111942)

Lab Number: 3233-16

Lot #: VR16-1084

Vessel Number: PROX046100

Results Status: PQ PASS

Inspection	Unit	Method	Limits	Actual
Kinematic Viscosity at 40° C	cSt	ASTM D7279	32 - 120	61.6
Polychlorinated Biphenyls	ug/g	SW 846/USEPA 8082	ND	ND
Halogens	ppm	ASTM D6052	800 Max	97
Styrene	ppm	GC/HS	100 Max	0
Karl Fischer, %	wt%	ASTM E203	5 Max	3.22
Glycol	%	GC-HS	1.5 Max	0.5
Sediment by Centrifuge	vol%	ASTM D1796	1.5 Max	0.2
Caustic Coagulation		OHLI-0708	Pass	Pass
Specific Gravity at 60°F		ASTM D4052	0.8654 - 0.8984	0.8696
API Gravity at 60° F	-	ASTM D4052	26 - 32	31.21
Density (Pounds/Gallon)	lbs/gal	ASTM D4052	Report	7.250
Flash Point, Closed Cup Seta	F	ASTM D3278	Pass	Pass
Arsenic	ppm	ASTM D5185	5 Max	0
Cadmium	ppm	ASTM D5185	2 Max	0
Calcium	ppm	ASTM D5185	3500 Max	1902
Chromium	ppm	ASTM D5185	10 Max	0.7
Iron	ppm	ASTM D5185	150 Max	24
Lead	ppm	ASTM D5185	100 Max	7
Phosphorus	ppm	ASTM D5158	1100 Max	666
Silicon	ppm	ASTM D5185	150 Max	35
Sodium	ppm	ASTM D5185	250 Max	88
Sulfur	wt%	D5185/6052	0.5 Max	0.218
Vanadium	ppm	ASTM D5185	10 Max	0
Zinc	ppm	ASTM D5185	1500 Max	748

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Certificate Of Analysis

Date: Thursday, September 29, 2016
Product: Used Motor Oil (66346-111942)
Lot #: VR16-1084

Customer: Synergy
Lab Number: 3487-16
Vessel Number: PROX046100
Results Status: Pass

Inspection	Unit	Method	Limits	Actual
Kinematic Viscosity at 40° C	cSt	ASTM D7279	32 - 120	51.98
Polychlorinated Biphenyls	ug/g	SW 846/USEPA 8082	ND	ND
Halogens	ppm	ASTM D6052	800 Max	76
Styrene	ppm	GC/HS	100 Max	0.00
Karl Fischer, %	wt%	ASTM E203	5 Max	2.79
Glycol	%	GC-HS	1.5 Max	1.20
Sediment by Centrifuge	vol%	ASTM D1796	1.5 Max	1.00
Caustic Coagulation		OHLI-0708	Pass	Pass
Specific Gravity at 60°F		ASTM D4052	0.8654 - 0.8984	0.8712
API Gravity at 60° F	-	ASTM D4052	26 - 32	30.92
Density (Pounds/Gallon)	lbs/gal	ASTM D4052	Report	7.263
Flash Point, Closed Cup Seta	F	ASTM D3278	Pass	Pass
Arsenic	ppm	ASTM D5185	5 Max	0.0
Cadmium	ppm	ASTM D5185	2 Max	0.2
Calcium	ppm	ASTM D5185	3500 Max	1803
Chromium	ppm	ASTM D5185	10 Max	0.7
Iron	ppm	ASTM D5185	150 Max	32
Lead	ppm	ASTM D5185	100 Max	5
Phosphorus	ppm	ASTM D5158	1100 Max	800
Silicon	ppm	ASTM D5185	150 Max	103
Sodium	ppm	ASTM D5185	250 Max	80
Sulfur	wt%	D5185/6052	0.5 Max	0.2560
Vanadium	ppm	ASTM D5185	10 Max	0
Zinc	ppm	ASTM D5185	1500 Max	976

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