



BUREAU
VERITAS

Certificate of Analysis

Nomination ID: PRPUE-21-00027

Bureau Veritas
Peñuelas Laboratory
Firm Delivery Carr. 127 Km. 19.1
Peñuelas PR, 00624
E: puertorico.ops_ctd@bureauveritas.com
T: 787-836-0810

Asset : [REDACTED] Submitted by : J & R Industrial Services
Product : ULSD Date & Time Sampled : 15-Dec-2020 / 1513 Hrs.
Job Location : [REDACTED] Grand Cayman Date & Time Sent to Lab : 21-Dec-2020 / 0900 Hrs.
TOCM Job ID : PRPUE-21-00027 Date & Time Received : 20-Jan-2021 / 1530 Hrs.
Quantity of Sample Taken : 4 Liters 20-Jan-2021 / 1600 – 1700 Hrs.
Tamper Proof Seal ID : OFREG00326 Date & Time Analyzed : 21-Jan-2021 / 0800 – 1700 Hrs.
Date Reported : 22-Jan-2021

F29 – P3				
PRPUE-21-00027-001				
Method	Test	Result	Specification	Condition
ASTM D4052	API Gravity @60°F, °API	37.0		
ASTM D976	Calculated Cetane Index	52.5	40 Min	Pass
	IBP, °C	182.0		
	10% Recovered, °C	219.1		
	50% Recovered, °C	275.0		
ASTM D86	90% Recovered, °C	327.9	282 - 338 °C	Pass
	Endpoint, °C	351.3		
	Recovery, % (V/V)	98.6		
	Residue, % (V/V)	1.3		
	Loss, % (V/V)	0.1		
ISM - Liqui-Cult	Observation Period, Hours	30		
	Bacteria, #/mL	10 ²		
ASTM D2709	Water and Sediment, % (V/V)	< 0.01	0.05 % (V/V) Max	Pass
ASTM D445	Kinematic Viscosity at 40°C, mm ² /s	2.943	1.9 - 4.1 mm ² /s	Pass
ASTM D7039	Total Sulfur, mg/kg	5.3		
EN 14078	Fame Content, % (V/V)	<0.05		
	Range	A		

Comments

* Analysis performed by other BV laboratory


Eric X Rodriguez, Laboratory Chemist





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Asset :	[REDACTED]	Submitted by :	J & R Industrial Services
Product :	Gasoline 8000	Date & Time Sampled :	15-Dec-2020 / 1520 Hrs.
Job Location :	[REDACTED] Grand Cayman	Date & Time Sent to Lab :	21-Dec-2020 / 0900 Hrs.
TOCM Job ID :	PRPUE-21-00027	Date & Time Received :	20-Jan-2021 / 1530 Hrs.
Quantity of Sample Taken :	4 Liters	Date & Time Analyzed :	21-Jan-2021 / 0800 – 1700 Hrs.
Tamper Proof Seal ID :	OFREG00362		22-Jan-2021 / 0800 – 1100 Hrs.
		Date Reported :	22-Jan-2021

F29 – P3				
PRPUE-21-00027-005				
Method	Test	Result	Specification	Condition
ASTM D130	Corrosion Copper Strip - 3h at 50°C (122°F)	1a	1a Max	Pass
ASTM D381	Unwashed Gum Content, mg/100mL	17.0		
	Washed Gum Content, mg/100mL	<0.5	5 mg/100mL Max	Pass
ASTM D2699C	Research Octane Number	99.7		
ASTM D2700C	Motor Octane Number	87.1		
ASTM D4814	Antiknock Index	93.4		
ASTM D5452	Particulate Contamination, mg/L	0.10		
ASTM D86	IBP, °F	84.5		
	10% Evaporated, °F	131.6		
	50% Evaporated, °F	234.3		
	90% Evaporated, °F	321.7		
	95% Evaporated, °F	346.1		
	Endpoint, °F	397.7		
	Recovery, % (V/V)	97.3		
	Residue, % (V/V)	1.0		
	Loss, % (V/V)	1.7		
	Evaporated at 200°F, % (V/V)	29.6		
	Evaporated at 300°F, % (V/V)	83.4		
ASTM D3831	Manganese Content, ppm (m/m)	<0.25	0.25 ppm (m/m) Max	Pass
ASTM D5191	DVPE, psi	9.34		
ASTM D4815-13	Ethanol, % (m/m)	Not Detected		


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Asset :		Submitted by :	J & R Industrial Services
Product :	ULSD	Date & Time Sampled :	15-Dec-2020 / 1439 Hrs.
Job Location :	Grand Cayman	Date & Time Sent to Lab :	21-Dec-2020 / 0900 Hrs.
TOCM Job ID :	PRPUE-21-00027	Date & Time Received :	20-Jan-2021 / 1530 Hrs.
Quantity of Sample Taken :	4 Liters		20-Jan-2021 / 1600 – 1700 Hrs.
Tamper Proof Seal ID :	OFREG00331	Date & Time Analyzed :	21-Jan-2021 / 0800 – 1700 Hrs.
			22-Jan-2021 / 0800 – 1400 Hrs.
		Date Reported :	22-Jan-2021

F39 – P5				
PRPUE-21-00027-004				
Method	Test	Result	Specification	Condition
ASTM D4052	API Gravity @60°F, °API	36.9		
ASTM D976	Calculated Cetane Index	52.5	40 Min	Pass
	IBP, °C	183.4		
	10% Recovered, °C	221.2		
	50% Recovered, °C	276.5		
ASTM D86	90% Recovered, °C	330.1	282 - 338 °C	Pass
	Endpoint, °C	352.4		
	Recovery, % (V/V)	98.4		
	Residue, % (V/V)	1.4		
	Loss, % (V/V)	0.2		
ISM - Liqui-Cult	Observation Period, Hours	30		
	Bacteria, #/mL	10 ⁴		
ASTM D2709	Water and Sediment, % (V/V)	< 0.01	0.05 % (V/V) Max	Pass
ASTM D445	Kinematic Viscosity at 40°C, mm²/s	3.010	1.9 - 4.1 mm²/s	Pass
ASTM D7039	Total Sulfur, mg/kg	5.4		
EN 14078	Fame Content, % (V/V)	<0.05		
	Range	A		

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T: 787-836-0810

Asset :	██████████	Submitted by :	J & R Industrial Services
Product :	ULSD	Date & Time Sampled :	15-Dec-2020 / 1151 Hrs.
Job Location :	██████████ Grand Cayman	Date & Time Sent to Lab :	21-Dec-2020 / 0900 Hrs.
TOCM Job ID :	PRPUE-21-00027	Date & Time Received :	20-Jan-2021 / 1530 Hrs.
Quantity of Sample Taken :	4 Liters		20-Jan-2021 / 1600 – 1700 Hrs.
Tamper Proof Seal ID :	OFREG00313	Date & Time Analyzed :	21-Jan-2021 / 0800 – 1700 Hrs.
			22-Jan-2021 / 0800 – 1400 Hrs.
		Date Reported :	22-Jan-2021

F40 – P2				
PRPUE-21-00027-003				
Method	Test	Result	Specification	Condition
ASTM D4052	API Gravity @60°F, °API	36.9		
ASTM D976	Calculated Cetane Index	52.5	40 Min	Pass
	IBP, °C	181.9		
	10% Recovered, °C	218.9		
	50% Recovered, °C	275.7		
	90% Recovered, °C	328.7	282 - 338 °C	Pass
ASTM D86	Endpoint, °C	351.1		
	Recovery, % (V/V)	98.4		
	Residue, % (V/V)	1.4		
	Loss, % (V/V)	0.2		
ISM - Liqui-Cult	Observation Period, Hours	30		
	Bacteria, #/mL	10 ⁴		
ASTM D2709	Water and Sediment, % (V/V)	< 0.01	0.05 % (V/V) Max	Pass
ASTM D445	Kinematic Viscosity at 40°C, mm ² /s	2.980	1.9 - 4.1 mm ² /s	Pass
ASTM D7039	Total Sulfur, mg/kg	5.9		
EN 14078	Fame Content, % (V/V)	<0.05		
	Range	A		

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Asset :		Submitted by :	J & R Industrial Services
Product :	Gasoline	Date & Time Sampled :	15-Dec-2020 / 1630 Hrs.
Job Location :	Grand Cayman	Date & Time Sent to Lab :	21-Dec-2020 / 0900 Hrs.
TOCM Job ID :	PRPUE-21-00027	Date & Time Received :	20-Jan-2021 / 1530 Hrs.
Quantity of Sample Taken :	4 Liters	Date & Time Analyzed :	21-Jan-2021 / 0800 – 1700 Hrs.
Tamper Proof Seal ID :	OFREG00323		22-Jan-2021 / 0800 – 1100 Hrs.
		Date Reported :	22-Jan-2021

F46 – P8				
PRPUE-21-00027-006				
Method	Test	Result	Specification	Condition
ASTM D130	Corrosion Copper Strip - 3h at 50°C (122°F)	1a	1a Max	Pass
ASTM D381	Unwashed Gum Content, mg/100mL	18.5		
	Washed Gum Content, mg/100mL	<0.5	5 mg/100mL Max	Pass
ASTM D2699C	Research Octane Number	97.9		
ASTM D2700C	Motor Octane Number	88.0		
ASTM D4814	Antiknock Index	93.0		
ASTM D5452	Particulate Contamination, mg/L	0.20		
ASTM D86	IBP, °F	88.7		
	10% Evaporated, °F	137.1		
	50% Evaporated, °F	227.1		
	90% Evaporated, °F	305.4		
	95% Evaporated, °F	334.4		
	Endpoint, °F	406.2		
	Recovery, % (V/V)	97.1		
	Residue, % (V/V)	1.0		
	Loss, % (V/V)	1.9		
	Evaporated at 200°F, % (V/V)	29.8		
	Evaporated at 300°F, % (V/V)	89.0		
ASTM D3831	Manganese Content, ppm (m/m)	<0.25	0.25 ppm (m/m) Max	Pass
ASTM D5191	DVPE, psi	9.07		
ASTM D4815-13	Ethanol, % (m/m)	Not Detected		

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Asset : [REDACTED]
Product : ULSD
Job Location : [REDACTED] Grand Cayman
TOCM Job ID : PRPUE-21-00027
Quantity of Sample Taken : 4 Liters
Tamper Proof Seal ID : OFREG00327

Submitted by : J & R Industrial Services
Date & Time Sampled : 15-Dec-2020 / 1351 Hrs.
Date & Time Sent to Lab : 21-Dec-2020 / 0900 Hrs.
Date & Time Received : 20-Jan-2021 / 1530 Hrs.
20-Jan-2021 / 1600 – 1700 Hrs.
Date & Time Analyzed : 21-Jan-2021 / 0800 – 1700 Hrs.
22-Jan-2021 / 0800 – 1400 Hrs.
Date Reported : 22-Jan-2021

F51 – P7				
PRPUE-21-00027-002				
Method	Test	Result	Specification	Condition
ASTM D4052	API Gravity @60°F, °API	38.9		
ASTM D976	Calculated Cetane Index	53.2	40 Min	Pass
ASTM D86	IBP, °C	175.7		
	10% Recovered, °C	209.2		
	50% Recovered, °C	262.8		
	90% Recovered, °C	327.9	282 - 338 °C	Pass
	Endpoint, °C	358.9		
	Recovery, % (V/V)	98.7		
	Residue, % (V/V)	1.2		
	Loss, % (V/V)	0.1		
ISM - Liqui-Cult	Observation Period, Hours	30		
	Bacteria, #/mL	10 ⁴		
ASTM D2709	Water and Sediment, % (V/V)	< 0.01	0.05 % (V/V) Max	Pass
ASTM D445	Kinematic Viscosity at 40°C, mm²/s	2.595	1.9 - 4.1 mm²/s	Pass
ASTM D7039	Total Sulfur, mg/kg	7.9		
EN 14078	Fame Content, % (V/V)	<0.05		
	Range	A		

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Asset :		Submitted by :	J & R Industrial Services
Product :	Gasoline Pure 93	Date & Time Sampled :	15-Dec-2020 / 1347 Hrs.
Job Location :	Grand Cayman	Date & Time Sent to Lab :	21-Dec-2020 / 0900 Hrs.
TOCM Job ID :	PRPUE-21-00027	Date & Time Received :	20-Jan-2021 / 1530 Hrs.
Quantity of Sample Taken :	4 Liters	Date & Time Analyzed :	21-Jan-2021 / 0800 – 1700 Hrs.
Tamper Proof Seal ID :	OFREG00348		22-Jan-2021 / 0800 – 1100 Hrs.
		Date Reported :	22-Jan-2021

F51 – P1				
PRPUE-21-00027-008				
Method	Test	Result	Specification	Condition
ASTM D130	Corrosion Copper Strip - 3h at 50°C (122°F)	1a	1a Max	Pass
ASTM D381	Unwashed Gum Content, mg/100mL	22.5	5 mg/100mL Max	Pass
	Washed Gum Content, mg/100mL	0.5		
ASTM D2699C	Research Octane Number	98.0		
ASTM D2700C	Motor Octane Number	88.0		
ASTM D4814	Antiknock Index	93.0		
ASTM D5452	Particulate Contamination, mg/L	0.20		
ASTM D86	IBP, °F	81.0		
	10% Evaporated, °F	136.0		
	50% Evaporated, °F	226.5		
	90% Evaporated, °F	305.4		
	95% Evaporated, °F	330.9		
	Endpoint, °F	391.7		
	Recovery, % (V/V)	97.2		
	Residue, % (V/V)	1.2		
	Loss, % (V/V)	1.6		
	Evaporated at 200°F, % (V/V)	29.7		
	Evaporated at 300°F, % (V/V)	88.9		
ASTM D3831	Manganese Content, ppm (m/m)	<0.25	0.25 ppm (m/m) Max	Pass
ASTM D5191	DVPE, psi	9.18		
ASTM D4815-13	Ethanol, % (m/m)	Not Detected		

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Asset :		Submitted by :	J & R Industrial Services
Product :	Gasoline Pure 89	Date & Time Sampled :	15-Dec-2020 / 1024 Hrs.
Job Location :	Grand Cayman	Date & Time Sent to Lab :	21-Dec-2020 / 0900 Hrs.
TOCM Job ID :	PRPUE-21-00027	Date & Time Received :	20-Jan-2021 / 1530 Hrs.
Quantity of Sample Taken :	4 Liters	Date & Time Analyzed :	21-Jan-2021 / 0800 – 1700 Hrs.
Tamper Proof Seal ID :	OFREG00318		22-Jan-2021 / 0800 – 1100 Hrs.
		Date Reported :	22-Jan-2021

F53 – P1				
PRPUE-21-00027-007				
Method	Test	Result	Specification	Condition
ASTM D130	Corrosion Copper Strip - 3h at 50°C (122°F)	1a	1a Max	Pass
ASTM D381	Unwashed Gum Content, mg/100mL	24.5		
	Washed Gum Content, mg/100mL	<0.5	5 mg/100mL Max	Pass
ASTM D2699C	Research Octane Number	94.0		
ASTM D2700C	Motor Octane Number	82.6		
ASTM D4814	Antiknock Index	88.3		
ASTM D5452	Particulate Contamination, mg/L	0.30		
ASTM D86	IBP, °F	86.4		
	10% Evaporated, °F	119.8		
	50% Evaporated, °F	232.1		
	90% Evaporated, °F	348.8		
	95% Evaporated, °F	373.0		
	Endpoint, °F	418.9		
	Recovery, % (V/V)	97.8		
	Residue, % (V/V)	1.1		
	Loss, % (V/V)	1.1		
	Evaporated at 200°F, % (V/V)	41.6		
	Evaporated at 300°F, % (V/V)	77.8		
ASTM D3831	Manganese Content, ppm (m/m)	<0.25	0.25 ppm (m/m) Max	Pass
ASTM D5191	DVPE, psi	9.27		
ASTM D4815-13	Ethanol, % (m/m)	Not Detected		


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