



Certificate of Analysis

Nomination ID: PRPUE-22-00192

Bureau Veritas
Peñuelas Laboratory
Firm Delivery Carr. 127 Km. 19.1
Peñuelas, 00624, Puerto Rico
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T: 787-836-0810

**BUREAU
VERITAS**

Asset :	Pump #7	Submitted by :	J & R Industrial Services
Product :	Gasoline 5000	Date Sampled :	04-Jun-2022
Job Location :	Barcam, Cayman	Date & Time Sent to Lab :	07-Jun-2022 / 0900 Hrs.
TOCM Job ID :	PRPUE-22-00192	Date & Time Received :	12- Aug-2022 / 0800 Hrs.
Quantity of Sample Taken :	4 Liters	Date & Time Analyzed :	12- Aug-2022 / 0800 - 1600 Hrs.
Tamper Proof Seal ID :	JR0001988	Date Reported :	12-Aug-2022

		Pump #7		
		PRPUE-22-00192-003		
Method	Test	Result	Specification	Condition
ASTM D130	Corrosion Copper Strip - 3h at 50°C (122°F)	1a	1a Max	Spec Met
ASTM D381	Unwashed Gum Content, mg/100mL	11		
	Washed Gum Content, mg/100mL	1.5	5 mg/100mL Max	Spec Met
ASTM D2699C	Research Octane Number	98.8		
ASTM D2700C	Motor Octane Number	87.2		
ASTM D4814	Antiknock Index	93.0		
ASTM D5452	Particulate Contamination, mg/L	0.30		
ASTM D86	IBP, °F	78.3		
	10% Evaporated, °F	132.3		
	50% Evaporated, °F	235.2		
	90% Evaporated, °F	316.4		
	95% Evaporated, °F	341.3		
	Endpoint, °F	395.8		
	Recovery, % (V/V)	97.2		
	Residue, % (V/V)	1.1		
	Loss, % (V/V)	1.7		
	Evaporated at 200°F, % (V/V)	27.7		
Evaporated at 300°F, % (V/V)	86.2			
ASTM D3831	Manganese Content, ppm (m/m)	<0.25	0.25 ppm (m/m) Max	Spec Met
ASTM D5191	DVPE, psi	9.73		
* ASTM D4815	Ethanol (Correlated), % (m/m)	Not Detected		

Job Comments

Comments

* Per 40 CFR 1090.1355(e), "None detected" reported for oxygenate compounds measured less than 0.20 percent by mass. Note: A result reported as "ND", "Not Detected", or "None Detected" is not equivalent to or equal to zero (0); however, trace amounts of the components could be present in the sample.

Eric X. Rodriguez, Laboratory Chemist





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Asset :	Pump #7	Submitted by :	J & R Industrial Services
Product :	Gasoline 8000	Date Sampled :	04-Jun-2022
Job Location :	Barcam, Cayman	Date & Time Sent to Lab :	07-Jun-2022 / 0900 Hrs.
TOCM Job ID :	PRPUE-22-00192	Date & Time Received :	12- Aug-2022 / 0800 Hrs.
Quantity of Sample Taken :	4 Liters	Date & Time Analyzed :	12- Aug-2022 / 0800 - 1600 Hrs.
Tamper Proof Seal ID :	JR0001985	Date Reported :	12-Aug-2022

Pump #7				
PRPUE-22-00192-004				
Method	Test	Result	Specification	Condition
ASTM D130	Corrosion Copper Strip - 3h at 50°C (122°F)	1a	1a Max	Spec Met
ASTM D381	Unwashed Gum Content, mg/100mL	10		
	Washed Gum Content, mg/100mL	<0.5	5 mg/100mL Max	Spec Met
ASTM D2699C	Research Octane Number	98.8		
ASTM D2700C	Motor Octane Number	87.2		
ASTM D4814	Antiknock Index	93.0		
ASTM D5452	Particulate Contamination, mg/L	0.60		
ASTM D86	IBP, °F	77.4		
	10% Evaporated, °F	134.1		
	50% Evaporated, °F	236.0		
	90% Evaporated, °F	316.1		
	95% Evaporated, °F	340.8		
	Endpoint, °F	397.0		
	Recovery, % (V/V)	97.4		
ASTM D3831	Residue, % (V/V)	1.1		
	Loss, % (V/V)	1.5		
	Evaporated at 200°F, % (V/V)	27.3		
	Evaporated at 300°F, % (V/V)	86.1		
ASTM D5191	Manganese Content, ppm (m/m)	<0.25	0.25 ppm (m/m) Max	Spec Met
ASTM D4815	DVPE, psi	9.85		
† ASTM D4815	Ethanol (Correlated), % (m/m)	Not Detected		

Job Comments

Comments

† Per 40 CFR 1090.1355(e), "None detected" reported for oxygenate compounds measured less than 0.20 percent by mass. Note: A result reported as "ND", "Not Detected", or "None Detected" is not equivalent to or equal to zero (0); however, trace amounts of the components could be present in the sample.

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**BUREAU
VERITAS**


Asset :	Pump #7	Submitted by :	J & R Industrial Services
Product :	Automotive Diesel Oil	Date Sampled :	04-Jun-2022
Job Location :	Barcam, Cayman	Date & Time Sent to Lab :	07-Jun-2022 / 0900 Hrs.
TOCM Job ID :	PRPUE-22-00192	Date & Time Received :	12- Aug-2022 / 0800 Hrs.
Quantity of Sample Taken :	4 Liters		12- Aug-2022 / 0800 - 2359 Hrs.
Tamper Proof Seal ID :	JR0001995	Date & Time Analyzed :	13-Aug-2022 / 0001 – 1400 Hrs.
			15-Aug-2022 / 0800 – 1430 Hrs.
		Date Reported :	15-Aug-2022

		Pump #7		
		PRPUE-22-00192-005		
Method	Test	Result	Specification	Condition
ASTM D4052	API Gravity @60°F, °API	36.8		
ASTM D976	Calculated Cetane Index	50.1	40 Min	Spec Met
	IBP, °C	168.8		
	10% Recovered, °C	205.3		
	50% Recovered, °C	266.1		
	90% Recovered, °C	326.7	282 - 338 °C	Spec Met
ASTM D86	Endpoint, °C	351.2		
	Recovery, % (V/V)	98.2		
	Residue, % (V/V)	1.4		
	Loss, % (V/V)	0.4		
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	Spec Met
ASTM D445	Kinematic Viscosity at 40°C, mm ² /s	2.595	1.9 - 4.1 mm ² /s	Spec Met
ASTM D7039	Total Sulfur, mg/kg	6.6		
¹ EN 14078	Fame Content, % (V/V)	<0.05		
	Range	A		

Job Comments

Comments

¹ Analysis performed by subcontracted laboratory



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