

REQUEST FOR QUOTATION



SUPPLY OF LOW SULFUR & ULTRA LOW SULFUR DIESEL FOR ST. THOMAS AND ST. CROIX, U.S. VIRGIN ISLANDS GENERATING FACILITIES



RFQ-05-25

September 2024

Table of Contents

INTRODUCTION.....3

GENERAL INSTRUCTIONS.....4

GENERAL CONTRACT REQUIREMENTS4

Taxes5

Business License (If applicable).....6

Insurance.....7

Communication with Authority Board Members, Employees, Evaluation Committee Members.....7

Confidentiality.....7

Contract Execution8

Notice To Proceed.....8

Quotation Submittal9

QUESTIONS.....9

SCOPE OF WORK.....10

STORAGE CAPACITY12

SPECIFICATIONS.....13

PRICE14

EVALUATION OF PROPOSALS.....15

QUALIFICATION CRITERIA15

EVALUATION CRITERIA16

SELECTION CRITERIA.....16

EXHIBIT A.....17

Virgin Islands Water and Power Authority

ST. THOMAS, U.S. VIRGIN ISLANDS

Virgin Islands Water and Power Authority LSD and ULSD Package

INTRODUCTION

The Virgin Islands Water and Power Authority (“VIWAPA” or the “Authority”) is an autonomous government agency that owns and operates two (2) Power Generating Facilities. The Randolph Harley Power Plant located on St. Thomas and the Richmond Power Plant located on St. Croix, together, supply the entire territory with continuous, dependable energy. Generating units include combustion turbines powered with fuel oil or propane as well as solar power facilities owned by independent power producers (IPPs) and customers with distributed rooftop solar. In addition, VIWAPA is always endeavoring to increase reliability and efficiency of both facilities to provide the best service.

The St. Thomas system, with a generating capacity of approximately 138 megawatts, supplies electricity to nearby St. John Island and to Water Island via underwater cables. The St. Croix system, which has a capacity of about 100 megawatts, is located 40 miles across the ocean from St. Thomas and operates independently on its own grid. Both systems typically operate at less than half of their capacities, as each maintains its own backup generation and reserve power to ensure reliability.

The Authority is seeking a supplier to provide bulk quantities of fuel oil to its facilities. VIWAPA, subject to compliance with Virgin Islands Laws and VIWAPA’s Contract Guidelines, will receive electronic quotations for an exclusive requirements contract for

the supply of Low Sulfur Diesel (LSD) & Ultra Low Sulfur Diesel (ULSD) to its generating stations in St. Croix and St. Thomas, U.S. Virgin Islands.

GENERAL INSTRUCTIONS

Offerors are required to carefully read and adhere to the following Instructions to Offerors. Failure to comply with these instructions shall not be excused on the grounds of the Offeror's ignorance.

This document provides the Instructions to Offerors for proper submission of Quotations, as well as the policies and procedures VIWAPA follows when reviewing Quotations under consideration for award. The procedures outlined cover the handling of Quotations from submission and opening through the awarding process and the issuance of an official order or contract between the selected Offeror and VIWAPA

GENERAL CONTRACT REQUIREMENTS

ALL QUOTES SHALL ADHERE TO THE REQUIREMENTS OF THE AUTHORITY'S REQUEST FOR QUOTATIONS AND THE AUTHORITY'S GENERAL CONTRACT TERMS FOR EQUIPMENT AND SUPPLIES. THOSE REQUIREMENTS IN THE RFQ PERTAINING TO THE OFFEROR'S RESPONSIBILITY FOR TAXES AND PLACEMENT OF INSURANCE, ARE OF PARAMOUNT IMPORTANCE TO THE AUTHORITY AND SHALL APPLY, UNLESS EXPRESSLY WAIVED BY THE AUTHORITY.

THE OFFEROR'S RESPONSES MUST EXPRESSLY STATE THE TERMS AND CONDITIONS OF THE AUTHORITY'S GENERAL CONTRACT TERMS FOR EQUIPMENT AND SUPPLIES TO WHICH THE OFFEROR TAKES EXCEPTION. UNLESS EXPRESSLY ACCEPTED BY THE AUTHORITY IN WRITING, NO EXCEPTION SHALL BE DEEMED ACCEPTED. THE AUTHORITY RESERVES THE RIGHT, DEPENDING ON THE STATED EXCEPTION, TO CONSIDER ANY QUOTATION NON-RESPONSIVE AND NOT SUBJECT TO FURTHER CONSIDERATION.

ALL QUESTIONS AND INQUIRIES REGARDING ANY MATTER AFFECTING THE QUOTATION OR RESPONSE MUST EXCLUSIVELY BE DIRECTED, IN WRITING, TO THE AUTHORITY'S MANAGER OF CONTRACT ADMINISTRATION, NICOLE AUBAIN. ALL RFQ'S IN THEIR ENTIRETY ARE QUALIFIED BY THE FOLLOWING GENERAL REQUIREMENTS:

ALL COSTS AND EXPENSES ASSOCIATED WITH DEVELOPING AND/OR SUBMITTING A QUOTATION IN RESPONSE TO AN RFQ AND/OR ANY RELATED ACTIVITY FOLLOWING THE SUBMISSION OF ANY SUCH QUOTATION SHALL BE BORNE BY THE OFFEROR. WHILE VIWAPA HAS ENDEAVORED TO SUPPLY USEFUL INFORMATION IN AN RFQ, VIWAPA MAKES NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, AS TO THE ACCURACY OR COMPLETENESS OF ANY INFORMATION CONTAINED HEREIN OR OTHERWISE PROVIDED TO ANY OFFEROR BY, OR ON BEHALF OF VIWAPA. VIWAPA SHALL HAVE NO LIABILITY RELATING TO OR ARISING FROM ANY SUCH INFORMATION OR THE USE THEREOF. OFFERORS ARE ENCOURAGED TO CONDUCT THEIR OWN INVESTIGATION AND ANALYSIS OF ANY AND ALL INFORMATION CONTAINED HEREIN OR OTHERWISE PROVIDED BY OR ON BEHALF OF VIWAPA. THE RFQ IS NOT AN OFFER OR COMMITMENT AND IS NOT CAPABLE OF BEING ACCEPTED TO FORM A BINDING AGREEMENT. WAPA RESERVES THE RIGHT, IN ITS SOLE DISCRETION, TO WITHDRAW OR MODIFY THE RFQ AT ANY TIME, TO ACCEPT OR REJECT ANY OR ALL QUOTATIONS FOR ANY REASON, TO WAIVE ANY IRREGULARITIES OR INFORMALITIES IN THE QUOTATION PROCESS OR ANY NONCONFORMANCE WITH THE REQUIREMENTS OF THE RFQ, AND TO ENTER INTO FURTHER DISCUSSION OR INTERVIEWS WITH ANY ONE OR MORE OFFERORS.

Taxes

The Price proposed by Offeror shall be the total consideration, inclusive of taxes, if applicable. The Offeror, if awarded the Contract, may be subject to gross receipt taxes; excise taxes, import taxes or custom duty, depending on the nature of the scope of work. All taxes are the responsibility of the Offeror unless exempt by law. The Offeror is advised to contact the Virgin Islands Bureau of Internal Revenue ("IRB"), (340) 715-1040, for information on their tax obligations. Neither the Authority, nor its employees or representatives, shall be responsible or liable due to any inquiries or representations regarding the Offeror/Contractor's tax liability. To the extent an Offeror claims an exemption from any applicable Virgin Island Tax or custom duty, Offeror must, upon contract execution, present the Authority documented evidence from IRB or other Virgin Islands Government Department establishing that the Offeror is not responsible for taxes. Pursuant to 33 VIC § 44(a) (b) of the Virgin Islands Code, as amended, the Government

of the Virgin Islands and its instrumentalities, agencies and public corporations are required, when making a payment to any person, partnership, firm corporation or other business association that is subject to the payment of gross receipt taxes under the law, to deduct and withhold from such payment, gross receipt taxes as required by law at 33 VIC

§ 43 (a). Payment for the purposes of withholding is defined by law as:

- any single payment of at least \$30,000
- any payment pursuant to a contract providing for a total expenditure of \$225,000 or more.

Attached please find Appendix B for further direction from the Virgin Islands Bureau of Internal Revenue regarding tax obligations for contractors working in the Virgin Islands.

Business License (If applicable)

Offerors must comply with the licensing laws of the Virgin Islands and obtain all licenses required for the performance of the project. The Offeror is advised to contact the department of Licensing and Consumer Affairs (“DLCA”) at (340)774-3130 for information on the requirements for obtaining a business license, information on whether their operation requires or does not require a business license, or to obtain a waiver of the business license requirement. Should Offeror wish to claim that the scope of the services being provided do not require it to obtain a business license, Offeror must present to the Authority documented evidence from DLCA that the Offeror is not required to obtain a business license.

Copies of all necessary and applicable license(s) or copy of a business license waiver shall be obtained by the Offeror and copies presented to the Contracting Officer concurrent with the execution of the Contract. Additionally, Offeror must supply the Authority with its taxpayer identification number. Failure by Offeror to present its license(s) prior to execution of the contract or within such other reasonable time as agreed to by the parties may be grounds for the Authority to rescind the Contract.

At contract execution any Offeror that does not possess the following:

- a) a business license, or

- b) a waiver letter from DLCA that a business license is not required, or
- c) Evidence, subject to verification, that an application for a business license has been submitted to DLCA for processing may, at the Authority's sole discretion, have the contract award rescinded.

Insurance

The Offeror is required to obtain and maintain in effect insurance coverage pursuant to Appendix A, Clause 13 of the General Contract Terms for Equipment and Supplies. In addition, the Offeror shall submit proof of insurance coverage to the Manager of Contract Administration upon award of the Contract. Failure to provide the required insurance as requested shall be grounds to rescind the Contract.

Communication with Authority Board Members, Employees, Evaluation Committee Members

To preserve the integrity of the procurement process, and unless otherwise instructed, all communications, written or oral, regarding any RFQ and/or solicitation of quotations, must be submitted through the Authority's Contract Services Manager. Any direct contact made by an Offeror with the Authority's Board Members, Officers, Directors, employees, or the members of the Authority's Evaluation Committee concerning the procurement in an attempt to influence the procurement is prohibited and may be grounds for disqualification.

Confidentiality

Offerors are advised that any and all materials, information and documentation in any RFQ may become a record of the Authority and may be subject to the provisions of Title 3 V.I.C. § 881, et seq. (Public Records Act). The Public Records Act requires disclosure of public documents upon request of any citizen unless the public document is deemed to be confidential or otherwise exempted by law. To date no court of law has ruled on the application of this law to independent instrumentalities such as the Authority. "Confidential Information" includes all technical business, personnel, taxpayer or other

information including customer or client information and details of customer accounts, however, communicated or disclosed to the receiving party or its employees, relating to past, present and future research, development and business activities of the disclosing party and that has been identified as “confidential”. Both parties agree: (i) that the receiving party and its employees may disclose Confidential Information to others if required by law or with the prior written consent of the disclosing party; (ii) not to make use of Confidential Information other than for the performance of this Agreement; and (iii) that it will not use such information for its own advantage to the detriment of the disclosing party or its customers. Confidential information shall not include information which: (i) becomes generally available to the public (other than by the acts or omissions of the receiving party or its employees); (ii) was known prior to the date of this Agreement by “or becomes known to” the receiving party or its employees and was not obtained from any person under any obligation of confidentiality to the disclosing party, (iii) is independently developed by the receiving party; or (iv) is required to be disclosed pursuant to legal process or regulation.

Contract Execution

The final contract sent to the Offeror for execution must be executed and returned to the Division of Contract Administration within seven (7) business days of receipt. Failure by the Offeror to return the executed contract within the stated time may result in the contract award being rescinded. It is the responsibility of the Offeror to timely advise the Authority of any issues affecting contract execution so that the parties may discuss additional time for execution.

Notice To Proceed

The Notice to Proceed contains the commencement date of the contract work. The Notice to Proceed form must be executed and a copy presented to the Manager of Contract Administration prior to the final execution of the contract by the Authority’s Contracting Officer.

Quotation Submittal

All quotations must be electronically submitted and signed cover letter must be submitted with your response and addressed to the following address and emails:

Nicole Aubain
Contract Administration Manager
Virgin Islands Water and Power Authority
9720 Estate Thomas Al Cohen Plaza St. Thomas, VI 00802 Email:
contractservices@viwapa.vi

Faxed responses and late responses will not be accepted. (See cover letter for date and time of bid submittal). The Offeror shall indicate in their quotation that they have fully satisfied himself or herself with respect to the scope of work and specifications. The Offeror shall furnish evidence of prior satisfactory work experience in comparable work disciplines in his quotation.

QUESTIONS

Questions regarding the scope of services are to be addressed and emailed to:

Nicole Aubain
Contract Administration Manager
Virgin Islands Water and Power Authority
9720 Estate Thomas Al Cohen Plaza St. Thomas, VI 00802
Email: contractservices@viwapa.vi

All questions are to be emailed within the deadline as stated in the quotation invitation letter. Local Holidays are to be observed. Please indicate any exceptions to the RFQ at this time so they may be addressed.

SCOPE OF WORK

The Contract with the successful Offeror will be for the supply of LSD and ULSD requirements, as solely determined by VIWAPA, for both the St. Croix and St. Thomas generating stations. The contract will be for a period of twenty-four (24) months. Fuel delivery will occur either by vessel (at the terminal's fuel dock) or by truck (at the interconnection point at the fuel tanks)

Delivery to VIWAPA's generating stations shall be made to VIWAPA Safe Berth Krum Bay Terminal on St. Thomas and VIWAPA Safe Berth Estate Richmond Terminal on St. Croix.

Title to the product delivered to VIWAPA's generating stations shall transfer to VIWAPA after the fuel passes the permanent flange at the Krum Bay Terminal (either at the dock or fuel tanks) and the permanent flange at the Estate Richmond Terminal (either at dock or fuel tanks), as applicable. The Offeror is responsible for providing the necessary hoses, and well as for cleaning, removing, and disposing of any spills of its product that occur before the fuel passes the permanent flange at either terminal. Additionally, the Offeror is responsible for securing all necessary materials, permits, and personnel required for handling the transfer of the No. 2 distillate fuel oil and ULSD. Please note that the ports in the U.S. Virgin Islands are exempt from the Jones Act.

- A. Deliveries via vessel to the Krum Bay Terminal St. Thomas are limited to a channel with a draft of 30 feet. Deliveries to be made using VIWAPA's dock at Krum Bay Terminal at present are limited as follows:

LOA	450	Feet
Beam	No Restriction	Feet
Draft	30	Feet
Total Displacement	22,000	Short Tons

- B. Deliveries via vessel to the Estate Richmond Terminal St. Croix are limited to a channel with a draft of fifteen (15) feet. Deliveries to be made using VIWAPA's dock at the Estate Richmond Terminal at present are limited as follows:

LOA	305	Feet
Beam	No Restrictions	Feet
Draft	15	Feet
Total Displacement	9000	Short Tons

LIQUID FUEL OIL REQUIREMENTS

VIWAPA is seeking quotations for an exclusive contract for the supply of LSD and ULSD Fuel Oil for its St. Croix and St. Thomas generating stations in the United States Virgin Islands. The EPA's long-standing efforts reduce criteria pollutants, air toxics and other harmful emissions from diesel fuel used in transportation have led to significant health and environmental benefits while advancing technology and minimizing costs. These improvements are the result of several regulatory programs, including reductions in sulfur levels in diesel fuel, as well as voluntary initiatives like the National Clean Diesel Campaign.

In 2004, EPA finalized Tier 4 emission standards for nonroad diesel engines, which, along with sulfur reductions in nonroad diesel fuel, are expected to dramatically reduce harmful emissions and help states and local areas to improve their air quality. This comprehensive national program regulates both nonroad diesel engines and diesel fuel as a system. Consequently, The Authority may transition to exclusive consumption of ULSD in the future.

The Authority operates flexible thermal systems to maximize efficiency. Distillate fuel will vary on a month-by-month and annual basis throughout the life of the contract. While the Authority anticipates an average annual volume per plant as detailed below, these volumes are subject to change. The table below provides the estimated volumes:

	RHPP	ERPP
LSD/ULSD	240,000 BBLs/Yr. Avg. for GT's and Wartsila Engines	90,000 BBLs/Yr Avg. for GTs

STORAGE CAPACITY

The active storage tanks at the RHPP and ERPP used to store LSD are as follows:

FUEL STORAGE CAPACITY			
	TANK	BARRELS	GALLONS
RHPP	14	31,905	1,340,010
	15	31,905	1,340,010
ERPP	5	53,104	2,230,368
	6	25,450	1,068,900
	7	35,732	1,500,744

SPECIFICATIONS

- A. The fuel must meet the specifications outlined in Exhibit A. The LSD required for use must have a maximum sulfur content of **0.15%** weight, while the ULSD distillate fuel oil must have a maximum sulfur content of **0.0015%** weight. (See Exhibit A). VIWAPA requires the fuel to consist of homogeneous hydrocarbons, free of inorganic acids, microorganisms, water, and any solid or fibrous foreign matter. The Offeror is responsible for ensuring that the fuel complies with all applicable provisions of the Code of Federal Regulations.
- B. The fuel supplied to VIWAPA must be suitable burning without causing excessive maintenance to the generating stations or creating other operating issues. It must also comply with all applicable federal and local environmental rules and regulations.
- C. To ensure compliance with the specifications, the Offeror is required to conduct a laboratory analysis of the fuel being supplied. This analysis must be performed according to the specified method, ensuring the fuel meets the contract's specifications. A certified copy of the analysis must be submitted to VIWAPA's project representative before loading each delivery vessel, and another copy must be attached to each invoice. The analysis should be certified by an authorized chemist licensed in the United States Virgin Islands or elsewhere, as approved by VIWAPA, and must include the items specified in Exhibit A. VIWAPA reserves the right to recommend a preferred vendor to provide these services.
- D. If VIWAPA experiences in handling or burning the fuel efficiently, VIWAPA may request a special analysis to compare the delivered fuel's characteristic to the contracted specifications.
- E. Should any delivery the Offeror fail to meet the specifications as awarded, VIWAPA reserves the right to evaluate the deviation and either deduct a monetary equivalent from the amount due to the Offeror, establish a claim for nonperformance, or terminate the contract.
- F. The Offeror will be held responsible for any fines, penalties, damages, expenses, costs or claims, actions, and causes of actions, which may arise from fuel

deviations from the contracted specifications. In such cases, the Offeror will indemnify and defend VIWAPA, its officers, agents, and employees from any resulting claims, fines, damages, expenses, costs, or causes of actions.

PRICE

- A. Prices quoted shall be per barrel of forty-two (42) U.S. gallons, volume corrected to a temperature of 60° F, "as delivered" to the Krum Bay Terminal and the Estate Richmond Terminal. VIWAPA requires that every proposal submitted quote a premium or discount to the base price expressed in U.S. dollars per barrel (\$/bbl.).
- B. Offerors are required to submit proposals with payment terms for No. 2 distillate fuel oil delivered to the Krum Bay Terminal and to the Estate Richmond Terminal. VIWAPA expects a minimum sixty (60) days payment term. VIWAPA will award the exclusive dealing/requirements contract to a single party for both St. Croix and St. Thomas No. 2 distillate fuel oil requirements.
- C. The price formula quoted for No. 2 distillate fuel oil and ULSD using as reference the postings of Platt's Oilgram Price Report and Argus US Products is as follows:

Fifty percent (50%) of No. 2 fuel and ULSD from the average of quotations for the "U.S. Gulf Coast Waterborne" as published by the Platt's Oilgram Price Report, rounded to four (4) decimal places.

Plus, fifty percent (50) of No. 2 fuel and ULSD from the average of quotations for the "U.S. Gulf Coast Waterborne" as published by Argus US Products, rounded to four (4) decimal places.

Said result must then be multiplied by 0.42 to convert from cents per gallon to dollars per barrel.

The price of each delivery will be based on the average of the three (3) price quotations published immediately following the date of Notice of Readiness (NOR), with NOR equal to day zero.

- D. If applicable, excise and gross receipts taxes are to be presented as separate line items.
- E. Price(s) quoted shall be for fuel delivered to the Krum Bay Terminal and to the Estate Richmond Terminal, bearing in mind that VIWAPA will pay based on received quality and quantity.
- F. The cost per gallon for the truck & the cost per barrel for the barge must be equal to or better than the rack/terminal rate(s) at the Port Hamilton in St. Croix USVI.
- G. Proposals containing an escalator using commercial banking interest rates as part of the price formula will be rejected.

EVALUATION OF PROPOSALS

VIWAPA will carefully evaluate all Quotations received and will then select two or more Offerors deemed to be fully qualified and best suited among those Quotations, on the basis of evaluation criteria described below. Once evaluations are complete, VIWAPA will select the service providers that, in its opinion, have made the best overall quotation and execute a written agreement based on this RFQ, the quotation submitted, and any questions and clarifications concerning these instruments.

QUALIFICATION CRITERIA

The Offeror shall submit, along with its quotation, statements verifying the company's qualifications and past work history to demonstrate compliance with local and federal regulations. Additionally, the Offeror must provide documentation supporting its past and ongoing and ongoing satisfactory compliance with environmental requirements, including any state or local certifications.

Quotations must include the Offeror's full name, corporate address, telephone number and fax number. The Offeror must also list the primary contact and back-up contacts for this RFQ process, providing their title, addresses, telephone numbers, fax numbers and email addresses.

All documentation referenced in this section must be included with the quotation submittal.

EVALUATION CRITERIA

VIWAPA will evaluate quotations and select a service provider at its discretion. The evaluation criteria may include, but are not limited, to the following:

1. General company information.
2. Company management structure and capabilities.
3. Offeror's quality, reputation, and performance in a global environment.
VIWAPA may request references and seek to verify information.
4. Thoroughness and completeness of the quotation.
5. Demonstrated excellence in service, support, and warranties on a global scale.
6. Competitive pricing, with the ability to provide advanced and fixed global pricing as part of a demanding marketing schedule.
7. Ability to deliver the requested services within the required timeframes.

SELECTION CRITERIA

Solicitation Responses shall be consistently evaluated and scored in accordance with the criteria detailed in the table BELOW:


 PR 00-00 No.2 FUEL OIL RFP BID EVALUATION							
Project: NO. 2 FUEL OIL							
Project Number: PR							
Date:							
Evaluation Criteria	Weight (100)	Bidder 1	Bidder 2	Bidder 3	Bidder 4	Bidder 5	Bidder 6
1. Compliance with Specifications and Requirements of RFP	25%						
2. Compliance with VIWAPA T&C	15%						
3. Cost of Fuel	35%						
4. Financial Strength to support RFP	25%						
Total		Score	Score	Score	Score	Score	Score
100%		0	0	0	0	0	0

EXHIBIT A
NO. 2 DISTILLATE (LSD) FUEL
SPECIFICATIONS ST. CROIX AND ST.
THOMAS GENERATING STATIONS

PARAMETER	ASTM METHOD	MINIMUM	MAXIMUM
Sampling	C-4057-88	-	-
Gravity, API Degree at 60°	D-4052	30.0	43.0
Viscosity, Kinematic SSU at °100° F	D-88 or D-445	33.0	40.0
Water and Sediment, % volume	D-2709	-	0.1
Flash Point, Degree F, PMCT	D-93	130	-
Sulfur, % weight	D-4294	-	0.15
Ash, wt%	D-482	-	0.01
Pour Point, Degree F	D-97	-	30
Sodium plus Potassium, PPM2	D-3605	-	1.0
Vanadium, PPM	D-3605	-	0.5
Calcium, PPM	D-3605	-	2.0
Heating Value, BTU/lb. (Net) at 60° F	D-240	18,600	-
Distillation Temp. 90% Point degree F	D86	540	700
Carbon Residue WT. % (10% Bottoms)	D-524	-	0.35
Stability, Pad Reflectance %	D-6468	80	-
Corrosion, 3 hrs. @ 50 Deg C	D-130	-	1.0
Thermal Stability, 90 minutes 150 Deg CPAD Rating DuPont Scale		-	7
OR			
Thermal Stability	D-6468		
Y/Green		73%	-
W Unit		-	2.5
OR			
Oxidation Stability mg/100 ml	D-2274	65%	-
Color		Dyed	-
Cetane Index	D-976	35.0	-
Lead PPM	D-3605	1.0	-

Nitrogen Wt. %	D-4629	0.015	-
Particulates mg/L	D-2276 (IP-216), D-5452 or D-6217	2.6	-
Asphaltenes	D-6560 or IP-143	Non-Detectable	-

Ultra-Low Sulfur Diesel
SPECIFICATIONS ST. CROIX AND ST.
THOMAS GENERATING STATIONS

PARAMETER	ASTM METHOD	MINIMUM	MAXIMUM
Color, ASTM	D1500		1.5
Doctor Test	D4952		Negative3
Sulfur, ppm	D5453		15
Distillation – 90% recovered, °C	D86	282	338
Flash Point, °C	D93	52	
Density, Kg/m3, °C,	D4052		876
Viscosity @ 40°C, mm2/S (cSt)	D445	1.9	4.1
Cold Filter Plugging Point (CFPP), °C	D6371		
Summer ¹			-6
Winter ²			-12
Cetane Index	D976	41	
Corrosion, Copper Strip, rating 3h @ 50°C	D130		1B
Carbon – Residue on 10% distillation, % mass	D4530		0.35
Ash, mass %	D482		0.01
Water & Sediment, Volume %	D2709		0.05
Haze point	D4176	Clear and bright @ ambient temperature	
Conductivity, pS/m	D2624	50	
Nitrogen Wt. %	D4629		0.015
Net Heat of Combustion, BTU/lb	D240	18600	
Lubricity, High Frequency Reciprocating Rig (HFRR) @60°C, micron	D6079		520
Aromatic Content			0.35

¹Reproducibility and repeatability must be taken into consideration to comply with the maximum sulfur percent weight specification.