

Date: 05-Nov-2019

ADDX INTERNATIONAL

Analytical Report No: EP19-08428.001

The results shown in this test report specifically refer to the sample(s) tested as received unless otherwise stated. All tests have been performed using the latest revision of the methods indicated, unless specifically marked otherwise on the report. Precision parameters apply in the determination of the below results. Users of analytical results, when establishing conformance with commercial or regulatory requirements should note the full provisions of ASTM D3244, IP 367 and ISO 4259 in that context, the default confidence level of petroleum testing having been set at the 95% confidence level. Your attention is specifically drawn to Sections 7.3.6., 7.3.7 and 7.3.8 of ASTM D3244. With respect to the UOP methods listed in the report below the user is referred to the method and the statement within it specifying that the precision statements were determined using UOP Method 999. This report shall not be reproduced except in full, without the written approval of the laboratory.

Tests marked with an asterisk (*) are outside the scope of this laboratory's ISO/ IEC 17025 accreditation. Where a statement of conformity to a relevant or agreed specification is issued by SGS, this will be based solely upon a direct comparison of our results with the nominal minimum and maximum limits as described in the relevant or agreed specification.

CLIENT ID :	TBA	PRODUCT DESCRIPTION :	Ultra Low Sulphur Diesel
SAMPLE SOURCE :	As Supplied	SOURCE ID :	EN 590 without additive
SAMPLE TYPE :	As Received		
SAMPLED :	--	RECEIVED :	25-Oct-2019
ANALYSED :	30-Oct-2019	COMPLETED :	30-Oct-2019

PROPERTY	METHOD	RESULT UNITS	MIN	MAX
Kinematic Viscosity at 40°C (104°F)	IP 71	2.656 cSt	2.000	4.500
Cold Filter Plugging Point (CFPP)	IP 309	-10 °C	--	--
Mean wear scar diameter at 60 °C	ISO 12156-1 (Method B)	210 µm	--	460
Pensky Martin Flash Point (Closed cup) Procedure A	IP 34	64.0 °C	>55.0	--
Water Content by Coulometric KF *	IP 438	50 mg/kg	--	200

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Ian Joynson
Duty Manager

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SGS United Kingdom Limited

SGS Ellesmere Port, Rossmore Business Park, Ellesmere Port, Cheshire. CH65 3EN Tel: +44 (0) 151 3506618

Date: 05-Nov-2019
 ADDX INTERNATIONAL

Analytical Report No: EP19-08428.002

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CLIENT ID :	TBA	PRODUCT DESCRIPTION :	Ultra Low Sulphur Diesel - ADDX
SAMPLE SOURCE :	As Supplied	SOURCE ID :	EN 590 with additive
SAMPLE TYPE :	As Received		
SAMPLED :	--	RECEIVED :	25-Oct-2019
ANALYSED :	30-Oct-2019	COMPLETED :	30-Oct-2019

PROPERTY	METHOD	RESULT UNITS	MIN	MAX
Kinematic Viscosity at 40°C (104°F)	IP 71	2.653 cSt	2.000	4.500
Cold Filter Plugging Point (CFPP)	IP 309	-9 °C	--	--
Mean wear scar diameter at 60 °C	ISO 12156-1 (Method B)	200 µm	--	460
Pensky Martin Flash Point (Closed cup)	IP 34	63.0 °C	>55.0	--
Procedure A				
Water Content by Coulometric KF *	IP 438	140 mg/kg	--	200

**** End of Analytical Results ****

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Date: 05-Nov-2019

ADDX INTERNATIONAL

Analytical Report No: EP19-08429.001

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CLIENT ID :	TBA	PRODUCT DESCRIPTION :	Kerosene		
SAMPLE SOURCE :	As Supplied	SOURCE ID :	BS 2869 : C2 without additive		
SAMPLE TYPE :	As Received				
SAMPLED :	--	RECEIVED :	25-Oct-2019		
ANALYSED :	25-Oct-2019	COMPLETED :	25-Oct-2019		

PROPERTY	METHOD	RESULT UNITS	MIN	MAX
Kinematic Viscosity at 40°C (104°F)	IP 71	1.223 cSt	1.00	2.00
Abel Flash Point	IP 170	42.0 °C	38.0	--
Smoke Point - Automated Apparatus *	IP 598	26.0 mm	18.0	--

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CLIENT ID :	TBA	PRODUCT DESCRIPTION :	Kerosene - ADDX
SAMPLE SOURCE :	As Supplied	SOURCE ID :	BS 2869 : C2 with additive
SAMPLE TYPE :	As Received		
SAMPLED :	--	RECEIVED :	25-Oct-2019
ANALYSED :	25-Oct-2019	COMPLETED :	25-Oct-2019

PROPERTY	METHOD	RESULT UNITS	MIN	MAX
Kinematic Viscosity at 40°C (104°F)	IP 71	1.221 cSt	1.00	2.00
Abel Flash Point	IP 170	42.0 °C	38.0	--
Smoke Point - Automated Apparatus *	IP 598	26.0 mm	18.0	--

**** End of Analytical Results ****

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Date: 05-Nov-2019

ADDX INTERNATIONAL

Analytical Report No: EP19-07684.001

The results shown in this test report specifically refer to the sample(s) tested as received unless otherwise stated. All tests have been performed using the latest revision of the methods indicated, unless specifically marked otherwise on the report. Precision parameters apply in the determination of the below results. Users of analytical results, when establishing conformance with commercial or regulatory requirements should note the full provisions of ASTM D3244, IP 367 and ISO 4259 in that context, the default confidence level of petroleum testing having been set at the 95% confidence level. Your attention is specifically drawn to Sections 7.3.6., 7.3.7 and 7.3.8 of ASTM D3244. With respect to the UOP methods listed in the report below the user is referred to the method and the statement within it specifying that the precision statements were determined using UOP Method 999. This report shall not be reproduced except in full, without the written approval of the laboratory.

The sample(s) to which the findings recorded herein (the "Findings") relate was(were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativeness of any goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted.

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CLIENT ID :	TBA	PRODUCT DESCRIPTION :	Fuel Oil
SAMPLE SOURCE :	As Supplied	SOURCE ID :	RMG 380 without additive
SAMPLE TYPE :	As Received	SAMPLE BY :	Client
SAMPLED :	--	RECEIVED :	01-Oct-2019
ANALYSED :	29-Oct-2019	COMPLETED :	29-Oct-2019

PROPERTY	METHOD	RESULT UNITS	MIN	MAX
Pensky Martin Flash Point (Closed cup) Procedure B	IP 34	187.5 °C	60.0	--
Kinematic Viscosity at 50°C (122°F)	IP 71	171.7 cSt	--	380
Water Content	ASTM D95	<0.05 % (V/V)	--	0.50

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Date: 05-Nov-2019

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Analytical Report No: EP19-07684.002

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CLIENT ID :	TBA	PRODUCT DESCRIPTION :	Fuel Oil - ADDX
SAMPLE SOURCE :	As Supplied	SOURCE ID :	RMG 380 with additive
SAMPLE TYPE :	As Received	SAMPLE BY :	Client
SAMPLED :	--	RECEIVED :	01-Oct-2019
ANALYSED :	29-Oct-2019	COMPLETED :	29-Oct-2019

PROPERTY	METHOD	RESULT UNITS	MIN	MAX
Pensky Martin Flash Point (Closed cup) Procedure B	IP 34	196.0 °C	60.0	--
Kinematic Viscosity at 50°C (122°F)	IP 71	173.3 cSt	--	380
Water Content	ASTM D95	0.05 % (V/V)	--	0.50
** End of Analytical Results **				

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