

Certificate of Quality: LP19-00659.001 Reissue:

1

**** This Amended Report cancels and supersedes the Report No. LP19-00659.001 Dated 29/08/2019 issued by SGS.**

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 Test Report is issued under the Company's General Conditions of Service (copy available upon request or on the company website at www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT ORDER NUMBER :	91903/00779/19	SGS ORDER NO.:	574277
LOCATION :	Santa Cruz de Tenerife	VESSEL :	ATLANTIC SIRIUS
SAMPLE SOURCE :	Shore Tank	PRODUCT DESCRIPTION :	Gascoil - ULSD
SAMPLE TYPE :	After Discharge	SOURCE ID :	ST#101
SAMPLED :	26/08/2019 13:09	SAMPLE BY :	SGS Canarias*
ANALYSED :	28/08/2019 23:34 - 12/09/2019 09:19	RECEIVED :	28/08/2019 13:49
		COMPLETED :	12/09/2019 09:24

SGS OG&C makes no representation and assumes no responsibility for the reliability of analysis by a Sub-Contract Laboratory. The laboratory analysis for the Sub-Contract Laboratory tests are provided by:
S10 - Subcontracted to an External Laboratory

PROPERTY	METHOD	RESULT UNITS	MIN	MAX
Density at 15°C	ASTM D4052	835,2 kg/m³	820,0	845,0
Flash Point by PMCC - Procedure A / Automatic Tester	ASTM D93	62,0 °C	55,0	-
Cold filter plugging point (CFPP)	UNE EN 116	-10 °C	-	-
Water Content by Coulometric KF	UNE EN ISO 12937	99 mg/kg	-	200
Cetane Index (Procedure A)	ASTM D4737	53,2 Rating	-	-
Test Temperature	Visual	27 °C	-	-
Appearance	Visual	C&B -	-	-
65% Recovered at	ASTM D86	295,4 °C	250	-
85% Recovered at	ASTM D86	324,4 °C	-	350
95% Recovered at	ASTM D86	350,2 °C	-	360
S10 - Sulphur Content	UNE EN ISO 20846	5,6 mg/kg	-	10
Kinematic Viscosity at 40°C (104°F)	ASTM D445	2,716 cSt	2,000	4,500
Copper Strip corrosion (3h / 50°C)	ASTM D130	1a Rating	-	1
ME - Range B	UNE EN 14078	5,0 % (V/V)	-	7

----- End of Analytical Results -----

AUTHORISED SIGNATORY



Autimara Elena Guillen Suarez
Las Palmas Lab. Manager

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SGS Española de Control S.A.U

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Date: 12/09/2019

Certificate of Quality: LP19-00659.002 Reissue:

1

**** This Amended Report cancels and supersedes the Report No. LP19-00659.002 Dated 29/08/2019 issued by SGS.**

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 Test Report is issued under the Company's General Conditions of Service (copy available upon request or on the company website at www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT ORDER NUMBER :	91903/00779/19	SGS ORDER NO.:	574277
LOCATION :	Santa Cruz de Tenerife	VESSEL :	ATLANTIC SIRIUS
SAMPLE SOURCE :	Shore Tank	PRODUCT DESCRIPTION :	Gasoil - ULSD
SAMPLE TYPE :	After Discharge	SOURCE ID :	ST#102
SAMPLED :	26/08/2019 13:09	SAMPLE BY :	SGS Canarias*
ALYSED :	28/08/2019 23:34 - 12/09/2019 09:19	RECEIVED :	28/08/2019 13:09
		COMPLETED :	12/09/2019 09:24

SGS OG&C makes no representation and assumes no responsibility for the reliability of analysis by a Sub-Contract Laboratory. The laboratory analysis for the Sub-Contract Laboratory tests are provided by:
S10 - Subcontracted to an External Laboratory

PROPERTY	METHOD	RESULT UNITS	MIN	MAX
Density at 15°C	ASTM D4052	829,4 kg/m ³	820,0	845,0
Flash Point by PMCC - Procedure A / Automatic Tester	ASTM D93	73,0 °C	55,0	-
Cold filter plugging point (CFPP)	UNE EN 116	-5 °C	-	-
Water Content by Coulometric KF	UNE EN ISO 12937	72 mg/kg	-	200
Cetane Index (Procedure A)	ASTM D4737	58,7 Rating	-	-
Test Temperature	Visual	27 °C	-	-
Appearance	Visual	C&B -	-	-
65% Recovered at	ASTM D86	297,1 °C	250	-
85% Recovered at	ASTM D86	324,8 °C	-	350
95% Recovered at	ASTM D86	349,7 °C	-	360
S10 - Sulphur Content	UNE EN ISO 20846	5,0 mg/kg	-	10
Kinematic Viscosity at 40°C (104°F)	ASTM D445	3,088 cSt	2,000	4,500
Copper Strip corrosion (3h / 50°C)	ASTM D130	1a Rating	-	1
IE - Range A	UNE EN 14078	0,40 % (V/V)	-	7

----- End of Analytical Results -----

AUTHORISED SIGNATORY



Autinmara Elena Guillen Suarez
Las Palmas Lab. Manager

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C.I.F. : A 28633600



**BUREAU
VERITAS**

ANALYTICAL REPORT

Job No: 6262
a/Ref: ESQSPJ19003303

Date of Reception: 20/09/2019
Date Analysis started: 20/09/2019
Date Analysis completed: 21/09/2019

Label: Bureau Veritas
Lab ID: TK 311

Sample Package: 1x1L Metal
Seal N.º:

Information provided by the customer, the sample owner or the taker

Grade: GNA 98
Origin: TERMINALES CANARIOS (TENERIFE)
Id: TK 311

Y/Ref: T1019311
Sampling date: 14/09/2019

Test	Units	Method	Results	Specifications ¹	U k=2(95%)	Notes*
Density at 15°C	Kg/m ³	ASTM D 4062:18a	745,2	720-775		
RVP	Kpa	EN 13018-1:08	53,8	45-60		
Sulphur content	mg/Kg	EN ISO 20846:04	6,5	Max 10		
Copper corrosion		ASTM D 130:18	1 a	Class 1		
Existent Gum (Solvent Washed)	mg/100ml	ASTM D 381:12 (R2017)	5,0	Max 5		
Distillation		ASTM D 86:18				
Recovered at 70°C	%vol		32,8	20-54		
Recovered at 100°C	%vol		60,5	46-74		
Recovered at 150°C	%vol		93,3	Min 75		
FBP	°C		176,0	Max 210		
Residue	%vol		1,0	Max 2		
Lead Content	g/L	ASTM D 3237:17	<0,0025	Max 0,005		

The test results shown on this report affect only to the samples received in this laboratory, and not necessarily to the whole from which these samples were drawn.

Precision parameters apply in the evaluation of the test results specified above. Please also refer to ASTM D3244 (Except for RFG), IP 367 and appendix E of IP standard methods for analysis and testing in respect to the utilization of test data to determine conformance with the specifications.

The samples will be kept for a period of three months.

¹ Specifications: EN 228

Date of Report: 21/09/2019
Name/s: Beatriz Pérez
Signature/s: Laboratory Manager



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C.I.F.: A 28633600



**BUREAU
VERITAS**

ANALYTICAL REPORT

Job No: 6262-5
o/Ret: ESOSPJ19003303

Date of Reception: 20/09/2019
Date Analysis started: 20/09/2019
Date Analysis completed: 23/09/2019

Label: Bureau Veritas
Lab ID: TK 312

Sample Package: 1x1L Metal
Seal N°:

Grade: GNA 98
Origin: TERMINALES CANARIOS (TENERIFE)
Id: TK 312

Information provided by the customer, the sample owner or the taker

Y/Ref: T0619312
Sampling date: 14/09/2019

Test	Units	Method	Results	Specifications ¹	U k=2(95%)	Notes*
Density at 15°C	Kg/m ³	ASTM D 4052:18a	742,6	720-775		
PVP	Kpa	EN 13016-1:08	55,4	45-60		
Sulphur content	mg/Kg	EN ISO 20846:04	8,2	Max 10		
Copper corrosion		ASTM D 130:18	1a	Class 1		
Existent Gum (Solvent Washed)	mg/100ml	ASTM D 381:12 (R2017)	2,0	Max 5		
Distillation		ASTM D 86:18				
Recovered at 70°C	%vol		32,9	20-54		
Recovered at 100°C	%vol		61,5	46-74		
Recovered at 150°C	%vol		93,0	Min 75		
FBP	°C		174,6	Max 210		
Residue	%vol		1,0	Max 2		
Lead Content	g/L	ASTM D 3237:17	<0,0025	Max 0,005		

The test results shown on this report affect only to the samples received in this laboratory, and not necessarily to the whole from which these samples were drawn.

Precision parameters apply in the evaluation of the test results specified above. Please also refer to ASTM D3244 (Except for RFG), IP 367 and appendix E of IP standard methods for analysis and testing in respect to the utilization of test data to determine conformance with the specifications.

The samples will be kept for a period of three months.

¹ Specifications: EN 228

Date of Report 23/09/2019
Name/s Beatriz Pérez
Signature/s Laboratory Manager



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C.I.F. : A 28633600



**BUREAU
VERITAS**

ANALYTICAL REPORT

Job No: 6262-2
o/Ref : ESOSPJ19003303

Date of Reception: 20/09/2019
Date Analysis started: 20/09/2019
Date Analysis completed: 21/09/2019

Label: Bureau Veritas
Lab ID: TK 211

Sample Package: 1x1L Metal
Seal N°: -

Grade: GNA 95
Origin: TENERIFE
Id: TK 211

Information provided by the customer, the sample owner or the taker

Y/Ref : T1019211
Sampling date: 14/09/2019

Test	Units	Method	Results	Specifications ¹	U k=2(95%)	Notes*
Density at 15°C	Kg/m ³	ASTM D 4052:18a	732,1	720-775		
RVP	Kpa	EN 13016-1:08	55,1	Max 60		
Sulphur content	mg/Kg	EN ISO 20846:04	9,6	Max 10		
Copper corrosion		ASTM D 130:18	1 a	Class 1b		
Existent Gum (Solvent Washed)	mg/100ml	ASTM D 381:12 (R2017)	5,0	Max 5		
Distillation		ASTM D 88:18				
Recovered at 70°C	%vol		33,1	20-54		
Recovered at 100°C	%vol		61,4	46-74		
Recovered at 150°C	%vol		94,1	Min 75		
FBP	°C		176,5	Max 210		
Residue	%vol		1,0	Max 2		
Lead Content	g/L	ASTM D 3237:17	<0,0025	Max 0,005		

The test results shown on this report affect only to the samples received in this laboratory, and not necessarily to the whole from which these samples were drawn.

Precision parameters apply in the evaluation of the test results specified above. Please also refer to ASTM D3244 (Except for RFG), IP 367 and appendix E of IP standard methods for analysis and testing in respect to the utilization of test data to determine conformance with the specifications.

The samples will be kept for a period of three months.

¹ Specifications: EN 228

Date of Report: 21/09/2019
Name/s: Beatriz Pérez
Signature/s: Laboratory Manager



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**BUREAU
VERITAS**

ANALYTICAL REPORT

Job No: 6262-3
o/Ref : ESOSPJ19003303

Date of Reception: 20/09/2019
Date Analysis started: 20/09/2019
Date Analysis completed: 21/09/2019

Label: Bureau Veritas
Lab ID: TK 212

Sample Package: 1x1L Metal
Seal N°: -

Grade: GNA 95
Origin: TENERIFE
Id: TK 212

Information provided by the customer, the sample owner or the taker

Y/Ref : T0819212
Sampling date: 14/09/2019

Test	Units	Method	Results	Specifications ¹	U k=2(95%)	Notes*
Density at 15°C	Kg/m ³	ASTM D 4052:18a	732,1	720-775		
RVP	Kpa	EN 13016-1:08	56,9	Max 60		
Sulphur content	mg/Kg	EN ISO 20846:04	9,7	Max 10		
Copper corrosion		ASTM D 130:18	1 a	Class 1b		
Existent Gum (Solvent Washed)	mg/100ml	ASTM D 381:12 (R2017)	5,0	Max 5		
Distillation		ASTM D 86:18				
Recovered at 70°C	%vol		27,5	20-54		
Recovered at 100°C	%vol		62,0	46-74		
Recovered at 150°C	%vol		92,6	Min 75		
FBP	°C		180,0	Max 210		
Residue	%vol		1,0	Max 2		
Lead Content	g/L	ASTM D 3237:17	<0,0025	Max 0,005		

The test results shown on this report affect only to the samples received in this laboratory, and not necessarily to the whole from which these samples were drawn.

Precision parameters apply in the evaluation of the test results specified above. Please also refer to ASTM D3244 (Except for RFG), IP 367 and appendix E of IP standard methods for analysis and testing in respect to the utilization of test data to determine conformance with the specifications.

The samples will be kept for a period of three months.

¹ Specifications: EN 228

Date of Report: 21/09/2019
Name/s: Beatriz Pérez
Signature/s: Laboratory Manager



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**BUREAU
VERITAS**

ANALYTICAL REPORT

Job No: 6262-4

o/Ref: ESOSPJ19003303

Date of Reception: 20/09/2019

Date Analysis started: 20/09/2019

Date Analysis completed: 21/09/2019

Label: Bureau Veritas
Lab ID: TK 102

Sample Package: 1x1L Metal
Seal N°: -

Information provided by the customer, the sample owner or the taker

Grade: GO A

Origin: TENERIFE

Id: TK 102

Y/Ref: T0719102

Sampling date: 15/09/2019

Test	Units	Method	Results	Specifications ¹	U k=2(95%)	Notes ²
Density at 15°C	Kg/m ³	ASTM D-4052:18a	833,5	820-845		
Sulphur	mg/Kg	EN-ISO-20846:12	7,8	10 max		
Distillation		ASTM D 86:18				
85% recovered	%v/v		296,9	250 min		
85% recovered	%v/v		324,3	350 max		
95% recovered	°C		349,1	360 max		
Kinematic Viscosity at 40°C	mm ² /s	ASTM D 445:18	2,840	2,00-4,50		
Flash Point	°C	ASTM D93:18	64,0	Min 55		
Water content	mg/Kg	EN ISO 12537:01	80	200 max		
Copper corrosion, 3h 50°C	Class 1	ASTM D 130:18	1 a	class 1		
Fame Content	%vol	EN 14078:15	3,51	7,0 max		
C.F.P.P	°C	EN 116:15	-7	Max 0		
Conductivity at 20,0°C	pS/m	ASTM D 2624:15	100			

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Precision parameters apply in the evaluation of the test results specified above. Please also refer to ASTM D3244 (Except for RFG), IP 367 and appendix E of IP standard methods for analysis and testing in respect to the utilization of test data to determine conformance with the specifications.

The samples will be kept for a period of three months.

¹ Specifications: Spanish EN 590

Date of Report: 21/09/2019
Name/s: Beatriz Pérez
Signature/s: Laboratory Manager

