

Inspectorate Española, S.A.

(Unipersonal)

Laboratorio de análisis - Cartagena

Polígono Industrial El Fungal C/ra -343 km10 Decha

Valle de Escombreras (MURCIA)

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**BUREAU
VERITAS**

ANALYTICAL REPORT

Job No: 17136-1 (rev-1)
o/Ref: ESOOCJ19004039

Date of Reception: 14/11/2019
Date Analysis started: 14/11/2019
Date Analysis completed: 14/11/2019

Label: BUREAU VERITAS
Lab ID: TK 101

Sample Package: 1 x 1L CAN
Seal N°: 172359

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

Grade: GO A
Origin: Terminales Canarias
Id: MT VALSESIA
Shoretank 101 composite sample after discharge - T0819101

Y/Ref :
Sampling date: 11/11/2019

Test	Units	Method	Results	Specifications ¹	U K=2 (95%)	Notes*
Density at 15°C	Kg/m ³	ASTM D-4052:18	840,0	820-845		
Sulphur	mg/Kg	EN-ISO-20846:2011	7,5	10,0 max		
Distillation		ASTM D-86:17				
65% recovered	°C		292,9	250 min		
85%recovered	°C		328,0	350 max		
95% recovered	°C		353,5	360 max		
Kinematic Viscosity at 40°C	mm ² /s	ASTM D-445:19	2,702	2,00-4,50		
Flash Point	°C	ASTM D-93 A:16	65,0	55,0 min		
Water content	mg/Kg	EN ISO 12937:2001	50	200 max		
Copper corrosion, 3h 50°C	Class 1	ASTM D-130:-19	1b	class 1		
Electrical conductivity	pS/m	ASTM D-2624:09	74	-		
Fame Content	%vol	EN 14078:2014	1,2	7,0 max		
C.F.P.P	°C	EN 116:2015	-16	0 max		

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.

¹ Specifications: GASOLEO AUTOMOCION SGC/SGA/SGP OPS REVISION 7 Fecha 28/04/15

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.

"This Analytical Report 17136-1 (rev-1) cancels and replaces the Analytical Report 17136-1"

Date of Report: 15/11/2019
Name/s: Itziar Martínez Larrambeberé
Signature/s:





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ANALYTICAL REPORT

Job Number: 445-1

O/ Ref: 647-19-00050

Y/ Ref: NOV19

Grade: GOA

Origin: TERMINALES CANARIOS, TENERIFE

Label: AMSPEC

Identification: SHT 101: T0919101 MT " CIELO DI GAETA"

Description: RUNNING SAMPLE AFTER DISCHARGE

Date of reception: 29/11/2019

Date Analysis started: 29/11/2019

Date Analysis completed: 29/11/2019

Sample Package: 2X1L CAN

Sampling date: 25/11/2019

Seal Nº: N/A

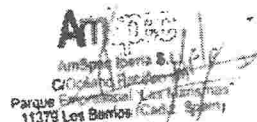
Parameter	Units	Method	Result	Note
Density at 15°C	g/ml	ISO 12185:1996/Cor.1:2001(E)	0,8392	
Viscosity at 40°C	mm ² /s	ISO 3104:1994/Cor.1:1997(E)	2,671	
Sulphur content	mg/Kg	ISO 20846:2011	7,3	
Distillation	°C	ASTM D86 - 16a		
65% Recovered			293,9	
85% Recovered			327,2	
95% Recovered			353,7	
F.B.P.			362,2	
Flash point (Proced. A - Electric ignitor)	°C	ISO 2719:2002(E)	64	
Water Karl Fischer	mg/Kg	ISO 12937:2000(E)	76	
Copper corrosion, 3h 50°C	Class 1	ASTM D130 - 12	1a	
Conductivity at 20°C	ps/m	ASTM D2624 - 15	69	
FAME content	%vol	EN 14078:2010	4,4	
CFPP	°C	UNE-EN 116:2015	-16	

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

Estimated uncertainties for each method are available upon request.

Date of Report: 29/11/2019
Name/s: Ana Belén Sánchez
Signature/s: Chief Analyst



Authorized by Alvaro Escobar
Laboratory Manager



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ANALYTICAL REPORT

Job Number: 445-2

O/ Ref: 647-19-00050

Y/ Ref: NOV19

Grade: GOA

Origin: TERMINALES CANARIOS, TENERIFE

Label: AMSPEC

Identification: SHT 102: T0919102 MT " CIELO DI GAETA"

Description: RUNNING SAMPLE AFTER DISCHARGE

Date of reception: 29/11/2019

Date Analysis started: 29/11/2019

Date Analysis completed: 29/11/2019

Sample Package: 2X1L CAN

Sampling date: 25/11/2019

Seal N°: N/A

Parameter	Units	Method	Result	Note
Density at 15°C	g/ml	ISO 12185:1996/Cor.1:2001(E)	0,8369	
Viscosity at 40°C	mm ² /s	ISO 3104:1994/Cor.1:1997(E)	2,739	
Sulphur content	mg/Kg	ISO 20846:2011	7,7	
Distillation	°C	ASTM D86 - 16a		
65% Recovered			295,3	
85% Recovered			326,5	
95% Recovered			352,3	
F.B.P.			360,6	
Flash point (Proced. A - Electric ignitor)	°C	ISO 2719:2002(E)	64	
Water Karl Fischer	mg/Kg	ISO 12937:2000(E)	77	
Copper corrosion, 3h 50°C	Class 1	ASTM D130 - 12	1a	
Conductivity at 20°C	ps/m	ASTM D2624 - 15	58	
FAME content	%vol	EN 14078:2010	4,4	
CFPP	°C	UNE-EN 116:2015	-16	

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

Estimated uncertainties for each method are available upon request.

Date of Report 29/11/2019
Name/s Ana Belén Sánchez
Signature/s Chief Analyst

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ANALYTICAL REPORT

Job Number: 445-4

O/ Ref: 647-19-00050

V/ Ref: NOV19

Grade: GNA 95

Origin: TERMINALES CANARIOS, TENERIFE

Label: AMSPEC

Identification: SHT 212: T1019212 MT "CIELO DI GAETA"

Description: RUNNING SAMPLE AFTER DISCHARGE

Date of reception: 29/11/2019

Date Analysis started: 29/11/2019

Date Analysis completed: 29/11/2019

Sample Package: 2X1L CAN

Sampling date: 25/11/2019

Seal Nº: N/A

Parameter	Units	Method	Result	Note
Density at 15°C	g/ml	ISO 12185:1996/Cor.1:2001(E)	0,7300	
DVPE	Kpa	EN ISO 13016-1:2008	60,9	
Distillation		ASTM D86 - 16a		
Evap at 70°C	%Vol		38,6	
Evap at 100°C	%Vol		65,5	
Evap at 150°C	%Vol		95,2	
FBP	°C		172,6	
Residue	%Vol		1,0	
Sulphur	mg/Kg	EN ISO 20846:2011	6,7	
Lead Content	g/L	ASTM D 3237 - 17	<0,005	
Copper corrosion, 3h 50°C	Class 1	ASTM D130 - 12	1a	
Existent Gums (Washed)	mg/100ml	ASTM D 381 - 12(2017)	<1	
Total Contamination	mg/Kg	EN ISO 12662:2014	<1	

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

Estimated uncertainties for each method are available upon request.

Date of Report 29/11/2019
Name/s Ana Belén Sánchez
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ANALYTICAL REPORT

Job Number: 445-3

O/ Ref: 647-19-00050

Y/ Ref: NOV19

Grade: GNA 95

Origin: TERMINALES CANARIOS, TENERIFE

Label: AMSPEC

Identification: SHT 211: T1319211 MT "CIELO DI GAETA"

Description: RUNNING SAMPLE AFTER DISCHARGE

Date of reception: 29/11/2019

Date Analysis started: 29/11/2019

Date Analysis completed: 29/11/2019

Sample Package: 2X1L CAN

Sampling date: 25/11/2019

Seal Nº: N/A

Parameter	Units	Method	Result	Note
Density at 15°C	g/ml	ISO 12185:1996/Cor.1:2001(E)	0,7320	
DVPE	Kpa	EN ISO 13016-1:2008	61,5	
Distillation		ASTM D86 - 16a		
Evap at 70°C	%Vol		39,3	
Evap at 100°C	%Vol		65,4	
Evap at 150°C	%Vol		96,2	
FBP	°C		174,6	
Residue	%Vol		1,0	
Sulphur	mg/Kg	EN ISO 20846:2011	5,6	
Lead Content	g/L	ASTM D 3237 - 17	<0,005	
Copper corrosion, 3h 50°C	Class 1	ASTM D130 - 12	1a	
Existent Gums (Washed)	mg/100ml	ASTM D 381 - 12(2017)	<1	
Total Contamination	mg/Kg	EN ISO 12662:2014	<1	

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

Estimated uncertainties for each method are available upon request.

Date of Report: 29/11/2019
Name/s: Ana Belén Sánchez
Signature/s: Chief Analyst

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ANALYTICAL REPORT

Job Number: 445-5

O/ Ref: 647-19-00050

Y/ Ref: NOV19

Grade: GNA 98

Origin: TERMINALES CANARIOS, TENERIFE

Label: AMSPEC

Identification: SHT 311: T1219311 MT "CIELO DI GAETA"

Description: RUNNING SAMPLE AFTER DISCHARGE

Date of reception: 29/11/2019

Date Analysis started: 29/11/2019

Date Analysis completed: 29/11/2019

Sample Package: 2X1L CAN

Sampling date: 25/11/2019

Seal Nº: N/A

Parameter	Units	Method	Result	Note
Density at 15°C	g/ml	ISO 12185:1996/Cor.1:2001(E)	0,7408	
DVPE	Kpa	EN ISO 13016-1:2008	60,0	
Distillation		ASTM D86 - 16a		
Evap at 70°C	%Vol		36,9	
Evap at 100°C	%Vol		63	
Evap at 150°C	%Vol		93,8	
FBP	°C		177,2	
Residue	%Vol		1	
Sulphur	mg/Kg	EN ISO 20846:2011	6,5	
Lead Content	g/L	ASTM D 3237 - 17	<0,005	
Copper corrosion, 3h 50°C	Class 1	ASTM D130 - 12	1a	
Existent Gums (Washed)	mg/100ml	ASTM D 381 - 12(2017)	<1	
Total Contamination	mg/Kg	EN ISO 12662:2014	<1	

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

Estimated uncertainties for each method are available upon request.

Date of Report	29/11/2019
Name/s	Ana Belén Sánchez
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