



Reporte de Calidad  
Quality Report

AMSPEC 24-006C

Ref. N°: AMSPEC 24-006C

Fecha / Date : 9/6/2024  
Buque / Vessel :  
Consignatario / Consignee : CUROIL N.V.  
Puerto / Port : WILLEMSTAD, CURACAO  
Terminal : CRU B.V.  
Codigo SCAC / SCAC Code: NA  
Ref del Cliente N° / Client Ref. N°: PO0028953

TEST-SAMPLE / ANALISIS-MUESTRA	Unidad / Units	Metodo Method	Especif. / Specif		Descripcion de las Muestras / Resultados Description / Results				Sample	
			Min	Max	Vessel arrival Composite	Shore Tank 0660 After Discharge		Shore Tank 0674 After Discharge		
SPECIFIC GRAVITY @60F		D4052			0.7471		0.7519		0.7472	
API Gravity @ 60°F(15.5C)	API	D4052	Report		57.9		56.7		57.9	
Density @ 15°C	kg/M3	D4052		720.0	746.8		751.6		746.9	
Appearance		Visual	Br+Cl		Pass		Pass		Pass	
F-1 Research Method	ON	D2699		95.0	95.5		95.2		95.4	
F-2 Motor Method	ON	D2700		85.0	85.4		86.0		86.0	
Antiknock Index (R+M/2)	ON	Calc	Report		90.5		90.6		90.7	
Initial Boiling Point	°C	D86		30	36.1		36.9		36.4	
10 % Recovered at	°C	D86		40	55.5		55.9		54.5	
50 % Recovered at	°C	D86		80	85.8		93.2		85.9	
90 % Recovered at	°C	D86		180	145.0		159.3		146.5	
Final Boiling Point	°C	D86		215	183.2		204.0		184.1	
RESIDUE	%v	D86		2	1.0		1.0		1.0	
70% Evaporated To	°C	D86	Report		33.0		28.9		34.0	
Doctor Test		D4952			Negative		Negative		Negative	
Mercaptan Sulfur	%m	D3227		0.0015	<0.0003		<0.0003		<0.0003	
REID VAPOR PRESSURE	PSI	D5191		8.7	8.18		8.18		8.19	
SULPHUR CONTENT	mg/kg	D5453		30	5.2		9.5		5.6	
EXISTENT GUM	mg/100ml	D381		4.0	0.5		0.5		0.5	
Oxidation Stability	Min	D525		360	>360		>360		>360	
COPPER STRIP 3HR/50°C		D130		1	1A		1A		1A	
<b>HYDROCARBON TYPES</b>										
OLEFINS	%v	D1319		18.0	7.9		9.3		6.6	
AROMATICS	%v	D1319		35.0	32.4		34.3		29.4	
OLEFINS + AROMATICS	%v	D1319		45.0	40.3		43.6		36	
Water Content	mg/kg	D6304	Report		290		384		600	
Odour		Marketable			Marketable		Marketable		Marketable	
Phosphorous	mg/L	D3231		1	<0.2		<0.2		<0.2	
* Oxygen Content	%w	D4815		2.7	<1.00					
* Oxygenates Content	%w	D4815	Report		<0.20					
* Benzene Content	%v	D3606		1.0	0.67					
* Methanol Content	%v	D4815		3.0	<0.20					
* Octane Improver				Nil	NIL					
* Manganese	mg/L	D3831			<0.2					
* Lead	mg/L	D3237		5	<0.010					
* Silicon Content	mg/kg	ATM-032	Report		<50					
* Chloride Content	mg/kg	D7536	Report		<0.2					
Hora de Muestreo / Sampling Time					19:48					
Muestra tomada por / Sample taken by					AmSpec					

Tipo de Muestra / Type of sample

Vessel Arrival Volumetric Composite

Estudio de calidad realizado por / Quality is performed by

CRU Refinery Lab / \* analysis results tested at AmSpec USA Lab

Estudio de calidad ratificado por / Quality is witnessed by

AmSpec

Notas / Notes

Cuando el análisis es testificado por Amspec Services Curacao N.V., nuestra responsabilidad es únicamente asegurar que el análisis se lleve a cabo por métodos de ensayo estándar. Suponiendo que todos los aparatos, instrumentos y aparatos de medida están calibrados y en buenas condiciones de trabajo. Los reactivos y soluciones son aceptados como preparados y se asume que los técnicos de laboratorio están calificados.

When Analysis are witnessed by Amspec Services Curacao N.V. Our responsibility is solely to ensure that the analysis are conducted by standard test methods.

All Apparatus, Instruments and measuring devices are assumed to be calibrated and in good working conditions. Reagents and solutions are accepted as prepared and the Laboratory Technicians are assumed to be qualified.

Comentarios / Remarks

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**AmSpec**  
Ian Leito  
AmSpec Services Curacao, N.V.