



Certificate of Analysis

Bureau Veritas Commodities and Trade
 New Orleans Laboratory
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Nomination ID: USBAT-20-00878

Asset	Sea Cougar	Submitted By	Baton Rouge
Product	Mogas 90R	Date Sampled	24-Jul-2020
Client Reference	INTV005FIN-2007-0022 (4929145)	Date Received	24-Jul-2020
Job Location	ExxonMobil Oil Corp.(Baton Rouge)	Date Analyzed	25-Jul-2020
TOCM Job ID	USBAT-20-00878	Date Reported	25-Jul-2020

Sea Cougar Vessel Composite After Loading			
USBAT-20-00878-006			
Method	Test	Result	Specification
ASTM D4176 Proc. 1	Appearance	Pass	
	Visual Observance	Clear and Bright	Clear and Bright
	Vortex Observance	No Particulate and Water	
	Sample Temperature ,°C	23.0	
	Test Performed	In Laboratory	
	Ambient Temperature ,°C	23.0	
ASTM D1500	ASTM Color	L0.5	
ASTM D86	Manual/Automated	Automatic	
	IBP ,°C	32.2	
	5% Recovered ,°C	51.0	
	10% Recovered ,°C	57.1	70 °C Max
	20% Recovered ,°C	68.2	
	30% Recovered ,°C	80.2	
	40% Recovered ,°C	93.5	
	50% Recovered ,°C	106.1	77 - 121 °C
	60% Recovered ,°C	117.4	
	70% Recovered ,°C	128.1	
	80% Recovered ,°C	145.2	
	85% Recovered ,°C	158.4	
	90% Recovered ,°C	173.3	190 °C Max
	95% Recovered ,°C	193.5	
	Endpoint ,°C	205.4	225 °C Max
Recovery ,% (V/V)	96.6		
Residue ,% (V/V)	1.1	2 % (V/V) Max	
Loss ,% (V/V)	2.3		
ASTM D4814	Vapor-Liquid ratio @ 56,°C	12.0	20 °C Max
ASTM D5191, ASTM Calc.	DVPE ,psi	8.28	10 psi Max
	DVPE ,kPa	57.1	69 kPa Max
	Hazy	No	
	Container Size	250 mL	
	Bath Verification	Yes	
ASTM D4815	Total Oxygen ,% (m/m)	<0.20	2.7 % (m/m) Max
	Total Oxygenates ,% (V/V)	<0.20	
ASTM D1319	UOP Dyed Gel Lot Number	30000959	
	Aromatics ,% (V/V)	27.2	45 % (V/V) Max
	Olefins ,% (V/V)	13.4	25 % (V/V) Max
ASTM D3606-10	Benzene ,% (V/V)	0.33	2.5 % (V/V) Max
ASTM D130	Corrosion Copper Strip - 3h at 50°C (122°F)	1a	1 Max
ASTM D2622	Total Sulfur Content ,% (m/m)	0.00937	0.1 % (m/m) Max
ASTM D2699C	Barometer ID	192069760	
	Observed Barometric Pressure ,in Hg	30.00	
	Thermometer ID	629577	
	Intake Air Temperature ,°F	126	
	Research Octane Number	91.7	90.0 Min
ASTM D3341	Lead (TEL) ,g/L	<0.1	



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ASTM D3237	Lead (TEL) ,g/gal	<0.1	
ASTM D525	Induction Period at 100°C ,Minutes	>240	240 Minutes Min
ASTM D381	Unwashed Gum Content ,mg/100mL	<0.5	5 mg/100mL Max
	Sample Filtered	No	
ASTM D3237	Lead Content ,g/L	<0.0025	0.013 g/L Max

Sihandreka Collins-Tillman, Laboratory Supervisor

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