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## **CERTIFICATE OF ANALYSIS N° PAR-86762**

VESSEL	: SCHWYZ			
LOCATION	: ExxonMobil - Beaumont, TX	MOVEMENT	:	Load
PRODUCT	: ULSD	REF. NO.	:	HV50105

	Volumetric Composite	After Lo	ad	Sample N° :	48	19-NOV-2023 Sampled at 19:00
				Minimum	Maximum	Remarks
ASTM D4052	API Gravity @ 60°F	38.5	°API	32		Pass
ASTM D4052	Density @ 15°C	832.0	Kg/m3			
ASTM D4176 (1)	Appearance	Clear & Bright		Clear & Bright		Pass
ASTM D1500	ASTM Color	L1.0			2.5	Pass
ASTM D93(A)	Flash Point	142	°F	140		Pass
ASTM D93(A)	Flash Point	61.0	°C	60		Pass
ASTM D2500	Cloud Point	-10	°C			
ASTM D97	Pour Point	-15	°C		0	Pass
ASTM D445	Viscosity @ 40 °C	2.306	cSt	2.0	4.1	Pass
ASTM D86	Distillation of Petroleum Products (Recovered)					
	Initial Boiling Point	162.3	°C			
	10%	188.7	°C	Report		
	50%	254.4	°C		288	Pass
	90%	333.8	°C	282	338	Pass
	Final Boiling Point (End Point)	361.8	°C		Report	
	Recovery	98.1	Vol. %			
	Residue	1.4	Vol. %		2.0	Pass
	Loss	0.5	Vol. %		2.0	Pass
ASTM D976	Cetane Index	50.3		46		Pass
ASTM D613	Cetane Number	48.2		46		Pass
ASTM D5453	Sulfur	8.9	ppm wt.		15	Pass
ASTM D482	Ash		Mass %		0.01	Pass
ASTM D189	Carbon Residue, Conradson	< 0.01	Wt. %			
ASTM D2709	Sediment & Water	< 0.010	Vol. %		0.02	Pass
ASTM D130	Copper Corrosion @ 50 °C (3 hrs)	1a			2	Pass
ASTM D664 (A)	Acid Number	<0.10	mg KOH/g			
	Chloride Content	<0.50	mg/kg			
ASTM D2624	Electrical Conductivity	118	pS/m	25		Pass
ASTM D5186	Total Aromatics (correlated to D1319)		Vol. %		35	Pass
EN 12916	Aromatic Hydrocarbons by HPLC					
	Polycyclic Aromatic Hydrocarbons	2.5	Mass %		8	Pass
ASTM D6079	Lubricity by HFRR					
	Wear Scar Diameter @ 60° C	340	microns		460	Pass
ASTM D2274	Oxidation Stability @ 95 °C Total Insolubles		g/m3		25	Pass
EN 12662	Total Contaminants	<12.0	mg/kg		25	Pass
ASTM D7111	Metals in Distillates by ICP					
	Silicon	<0.10	mg/kg(ppm)			



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VESSEL LOCATION PRODUCT	: SCHWYZ : ExxonMobil - Beaumont, TX : ULSD		MOVEMENT REF. NO.		Load HV50105
	Volumetric Composite	After Load	Sample N° :	48	19-NOV-2023 Sampled at 19:00
			Minimum	Maximum	Remarks
EN 16576	Metals by ICP-OES (Scope: FE, MN)				
	Manganese	<1.0 mg/L			

All testing is performed on premises by Camin Cargo Control and in accordance to the latest referenced test method unless specifically stated otherwise.

The results apply to the samples as received and specifically to the items listed on this certificate.

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The statement of conformity (i.e. Pass/Fail) within this document does not consider measurement uncertainty and applies the decision rules of Pass if the values are equal or are within limits and Fail if outside of limits. Limits are defined by the product's recognized specification or as determined by written client contract and/or individual job request.