

ANALYTICAL REPORT

Report issue date:	20/11/2021	Sample ID:	621-21-09978-013
Customer name:	ESPA, Pärnu mnt 102 B, Tallinn, EST	Our Ref number:	AM21489
Port / Origin:	Nordic Storage Malmö SHT M312	Your Ref number:	SWE 2021 FALL
Product:	ULSD	AIMS number:	621-21-09978
Sample source:	Shore tank M312	Sample received date:	15/11/2021
Sample type:	Shore tank composite sample	Analyses commenced:	15/11/2021
Sampling date:	05/11/2021	Analyses completed:	19/11/2021
Notes:	SWE 2021 FALL		

TEST	UNITS	METHOD	LIMITS	RESULT
Appearance		visual	C&B	C&B
Density at 15 deg C	kg/m ³	EN ISO 12185	800.0 - 845.0	831,6
Colour	rate	ASTM D1500	2.0 max	L 0,5
Strong smell	-		Typic/atypic	Typical
Water	mg/kg	EN ISO 12937	200 max	30,0
Corrected Flash Point,	deg C	EN ISO 2719	55 – 100	66,5
Viscosity at 40 deg C	mm ² /s	EN ISO 3104	1.50 - 4.00	2,196
Distillation		EN ISO 3405		
Recovered at 250°C	%vol		65 max	53,1
Recovered at 350°C	%vol		85 - 98	98,6**
Recovered at 370°C	%vol		-	98,6**
85%	deg C		250 – 350	292,7
90%	deg C		280 – 350	302,4
95%	deg C		300 – 360	316,9
FBP	deg C		280 – 380	331,7
Cloud Point	deg C	EN 23015	-3 max	-23
CFPP	deg C	EN 116	-10 max	-33
Cetane number	-	EN ISO 5165	Min 51	51,7
Lubricity	µm	EN ISO 12156-1	300 – 460	440
Carbon Residue (10% bottom)	%mass	EN ISO 10370	0.30 max	<0,10
Sulphur	mg/kg	EN ISO 20846	10 max	3,0
TUV ESSO ageing	mg/100ml	ESSO	-	6,1(57,5ml)
UV ageing 72h	Delta-scale	EBV D 1500	-	<0,5
Total Contamination	mg/kg	EN 12662	24 max	<12,0
Oxidation Stability	g/m ³	EN ISO 12205	25 max	3
Thermal stability	mg/kg	DIN 51371	-	0
Oxidation Stability RANCI	hours	DIN EN 15751	Min 20	24,6
Total Acid Number	mgKOH/g	ASTM D664	0.08 max	<0,05
Bromine Number	gBr/100g	EN ISO 3839	4 max	0,24

** Parameter found out of specification

This report reflects our findings at place and time of our intervention only and does not relieve any party from their contractual responsibilities. The laboratory is not responsible of the information provided by the customer, sample owner or the taker. 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 determination of above test results. Also refer to ASTM D3244, IP 367 for analyses and testing for utilization of test data to determine the conformance with specifications. Analyses in this report are performed at AmSpec ISO /IEC 17025 accredited laboratory. **Analyses in this report are performed at 3rd laboratory (EKUK).



OPS MANAGER: Andres Petuhov