

Testing laboratory no. 1152.1, accredited by Czech Accreditation Institute in accordance with ČSN EN ISO/IEC 17025:2018

LABORATORY REPORT no. 55728

Client# For NTS Europe s.r.o. ordered by L A M M E X, spol. s r.o.
Kazimírova 921/20, 149 00 Praha 4, Háje

Client Order **SGS order** 6536

Sample no., product# 55728 **Not specified**

Sample specification# TMD-10, Fuel Modifier

Quantity, sample bottle type 100 ml

Sampling date

Sampling place

Sampled by Sampled by client

Sampling within scope of accreditation - method Sampling out of accreditation range

Submitter client

Sample reception date 26.11.2020

Report approval date 26.11.2020

Report issued by Ing. Denisa Kárníková

Issue date: 26.11.2020

Approved by: Ing. Denisa Kárníková
Head of Laboratory Department



The results shown in this laboratory report specifically refer to the sample tested as received unless otherwise stated. All tests have been performed using the latest revision of the methods indicated, unless specifically marked otherwise on the report. Precision parameters apply in the determination of the above results. Users of the data shown on this report should refer to the latest published revisions of ASTM D-3244, IP 367, ČSN EN ISO 4259-1 a ČSN EN ISO 4259-2. This Test Report is issued under the Company's General Conditions of Service (copy available upon request or on the company website at <http://www.sgsgroup.cz/cs-CZ/Terms-and-Conditions.aspx>). Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. This report shall not be reproduced except in full, without the written approval of the laboratory. Tests out of the accreditation range are identified by a code explained below the table of results. Information marked with the symbol „#“ is provided by the client and the testing laboratory no. 1152.1 is not responsible for them.

Laboratory report no. 55728

Code	Test descriptions, parameters	Unit	Result	Date	Testing method
12	Ash	% m/m	0,002	17.03.2020	SOP 46 (ČSN EN ISO 6245)
11	Elemental analysis ICP AES - middle distillates			19.03.2020	SOP 135 (ASTM D 7111)
	Aluminium	mg/kg	<1		
	Barium	mg/kg	<1		
	Calcium	mg/kg	14		
	Chromium	mg/kg	<1		
	Copper	mg/kg	<1		
	Iron	mg/kg	2		
	Lead	mg/kg	<1		
	Magnesium	mg/kg	<1		
	Manganese	mg/kg	<1		
	Molybdenum	mg/kg	<1		
	Nickel	mg/kg	<1		
	Potassium	mg/kg	<1		
	Silicon	mg/kg	<1		
	Silver	mg/kg	<1		
	Sodium	mg/kg	<1		
	Titanium	mg/kg	<1		
	Vanadium	mg/kg	<1		
	Zinc	mg/kg	4		

First digit describes whether the test was performed within the accreditation range of the testing laboratory 1152.1: 1 = test within the scope of accreditation; 2 = test outside the scope of accreditation. Second digit represents the testing location: 1=Prague laboratory, U Trati 42, Prague 10; 2=Kolin laboratory, Ovčárecká 314, Kolin 5; 3=mobile laboratory, U Trati 42, Prague 10; 1*=outside the permanent laboratory; 9=outside contractor
(f) – test procedure changed within the flexible scope of accreditation

Note	This laboratory report replaces laboratory report no. 47337 issued on 25.3.2020. The client's name was changed at the client's request.
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Testing method	Commentary
SOP 46 (ČSN EN ISO 6245)	Extended measurement uncertainty - 6 % of result value.
SOP 135 (ASTM D 7111)	ICP-OES method, extended measurement uncertainty is 14% of result value.

Extended measurement uncertainty is a product of standard measurement uncertainty and an extension coefficient $k=2$ which corresponds to about 95% probability coverage for standard distribution. Standard measurement uncertainty was determined in accordance with document EA-4/16.

Order No.: 6536

Submitter: For NTS Europe s.r.o. ordered
by L A M M E X, spol. s r.o.

Address: Kazimírova 921/20
149 00 Praha 4 - Háje

LABORATORY TEST RESULTS EVALUATION

In Prague, 26.11.2020

Based on your request laboratory tests have been carried out and described as the following:

SGS description	Submitter description
55728	TMD-10, Fuel Modifier

55728

The supplied TMD-10 Fuel Modifier sample has an ash of 0.002% m/m and contains only 14 mg/kg of calcium, 2 mg/kg of iron and 4 mg/kg of zinc from the measured element spectrum. Other measured elements of aluminum, barium, chromium, copper, lead, magnesium, manganese, molybdenum, nickel, potassium, silicon, silver, sodium, titanium and vanadium were found below 1mg/kg, At a dosage of approx. 10 ppm, no negative impact on the quality indicators of diesel fuel can be expected.

This evaluation of results replaces the evaluation of results issued on 25.3.2020. The client's name was changed at the client's request

Ing. Vladimír Třebický, CSc.
Oil, Gas & Chemicals
Specialist of Inspection and Certification body
E-mail: vladimir.trebicky@sgs.com



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