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 SGS Ellesmere Port, Rossmore Business Park, Ellesmere Port,
 Cheshire, CH65 3EN

Analytical Report No: EP18-02120.001

Date: 05-Apr-2018
 DMD SALES LTD
 UNIT 5 KILCOOLE
 INDUSTRIAL ESTATE
 KILCOOLE
 COUNTY WICKLOW
 IRELAND

The results shown in this test report specifically refer to the sample(s) 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 below results. Users of the data shown on this report should refer to the latest published revisions of ASTM D3244; IP 367 and ISO 4259 and when utilising the test data to determine conformance with any specification or process requirement. With respect to the UOP methods listed in the report below the user is referred to the method and the statement within it specifying that the precision statements were determined using UOP Method 999. This Test Report is issued under the Company's General Conditions of Service (copy available upon request or on the company website at www.sgs.com). 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 marked with an asterisk (*) are outside the scope of this laboratory's ISO/ IEC 17025 accreditation

CLIENT ID :	TBA	VESSEL :	Forcourt
LOCATION :	Ellesmere Port	PRODUCT DESCRIPTION :	Diesel (Automotive Fuel) - 0.5% Dipetane
SAMPLE SOURCE :	As Supplied	SOURCE ID :	BS EN 590
SAMPLE TYPE :	Laboratory Hand Blend	SAMPLE BY :	SGS
SAMPLED :	26-Mar-2018	RECEIVED :	26-Mar-2018
ANALYSED :	27-Mar-2018 - 29-Mar-2018	COMPLETED :	29-Mar-2018
REPORT COMMENT :	Please be advised that the sample tested does meet the specification BS EN 590:2017		

PROPERTY	METHOD	RESULT UNITS	MIN	MAX
Derived Cetane Number *	IP 498	53.8 Rating	51.0	--
Cetane Index by Four-variable Equation *	ISO 4264	52.8 Rating	46.0	--
Density at 15°C *	ISO 12185	836.5 kg/m ³	820.0	845.0
Mono Aromatic *	EN 12916	20.8 % (m/m)	--	--
Di Aromatic Hydrocarbons *	EN 12916	2.7 % (m/m)	--	--
Tri+ - Aromatic Hydrocarbons *	EN 12916	0.3 % (m/m)	--	--
Poly Aromatic Hydrocarbons *	EN 12916	3.0 % (m/m)	--	8.0
Total Aromatic *	EN 12916	23.8 % (m/m)	--	--
Sulfur *	EN ISO 20846	6.2 mg/kg	--	10
Manganese *	EN 16576	<0.1 mg/l	--	2.0
Pensky Martens Flash Point (Closed cup) Procedure A *	ISO 2719	64.0 °C	>55.0	--
Carbon Residue (on 10 % Distillation Residue)	IP 398	0.20 % (m/m)	--	0.30
Ash Content	IP 4 / ISO 6245	<0.001 % (m/m)	--	0.010
Water Content by Coulometric KF *	ISO 12937	42 mg/kg	--	200
Total Contamination *	EN 12662 (2014)	<12.0 mg/kg	--	24
Copper Strip corrosion (3h / 50°C)	IP 154	1a Rating	Class 1	--
Fatty Acids Methyl Ester - Range A *	EN 14078	2.47 % (V/V)	--	7.0
Oxidation Stability (Induction Period) at 110°C *	EN 15751	>20 H	20	--
Test Temperature *	EN 15751	110.0 °C	--	--
Adherent Insolubles *	EN ISO 12205	2 g/m ³	--	--
Filterable Insolubles *	EN ISO 12205	1 g/m ³	--	--
Total Insolubles *	EN ISO 12205	3 g/m ³	--	25
Mean wear scar diameter at 60°C	ISO 12156-1:2006	245 µm	--	460
Kinematic Viscosity at 40°C *	ISO 3104	2.846 mm ² /s	2.000	4.500
Initial boiling point (IBP)	IP 123	170.0 °C	--	--
5% Recovered at	IP 123	197.6 °C	--	--
10% Recovered at	IP 123	209.7 °C	--	--

Authorized Signatory

Ian Joynson
 Duty Manager