

Certificate of Analysis

Lot : 10014549

Batch : 12/215

Customer Name
Customer No
Consignee
Delivery Address

Product Name Hiperflo TDS
Product Number 47358
Quantity
Certificate No 20028108
Certificate Date 11/06/2012
Approval Date 11/06/2012
Approved By: Nicholas Hiatt
Checked by Hannah Ponting
Approval Status Released For Sale
Spec No 47358 v 7

PCL Order Reference
Customer Reference
Customer Item Code
Customer Description

Method	Description	Min	Max	Results	Unit
ASTM D4052	Density at 15°C	0.74		0.7571	g/mL
Distillation					
ASTM D86	I.B.Pt.			45.0	°C
ASTM D86	10 % Evaporated at			73.8	°C
ASTM D86	50 % Evaporated at			94.2	°C
ASTM D86	90 % Evaporated at			103.8	°C
ASTM D86	Evaporated at 70°C			6.5	%
ASTM D86	Evaporated at 100°C			67.1	%
ASTM D86	Evaporated at 150°C			>98	%
ASTM D86	F.B.Pt.			113.3	°C
Engine Tests					
ASTM D2699	R.O.N.	107		111.0	Units
ASTM D2700	M.O.N.	95		97.5	Units
FIA					
ASTM D1319	Aromatics		35	28.0	% vol
ASTM D1319	Olefins		5	0.5	% vol
General Properties					
ASTM D323	Reid Vapour Pressure	35		39.1	kPa
IP 490	Sulphur Content		10	<3.0	mg/kg
ASTM D381	Gum, - washed		5	<0.5	mg/100mL
ASTM D525	Oxidation Stability	480		>480	minutes
ASTM D130	Copper Corrosion, 3hrs at 50°C			1A	
EN 238	Benzene		0.1	<0.1	% v/v
EN 237	Lead		0.005	<0.0025	g/L
ASTM D2624	Conductivity	200		>2000	pS/m
To Be Recorded					
ASTM D5762	Nitrogen			<40	mg/kg
IP 466	Oxygen Content			4.32	% mass
ASTM D5291	Carbon Content			83.41	% mass
ASTM D5291	Hydrogen Content			12.27	% mass
IP 466	Ethanol & Higher Alcohols			<0.2	% v/v
CALCULATION	Atomic H/C Ratio			1.753	Ratio
CALCULATION	Stoichiometric Air/Fuel Ratio			13.62	Ratio
IP 12	Net Calorific Value			40.12	MJ/kg
IP 12	Gross Heat of Combustion			42.72	MJ/kg

Additional Details