

TEST REPORT

SABS

This report no. **2112/ P4217_{R1}/11/PT** replaces report no. **2112/ P4217 /10/PT** dated 2011-02-02.

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Date: 2011-02-18
Report: **2112/P4217_{R1}/11/PT**
Page: 1 of 3

Fuel Stick SA (Pty) Ltd
Attention: Mr. Leon Pretorius
P.O Box 136
Delmas
2210

TESTING TO SANS 342:2006

1 SAMPLE DESCRIPTION

1 x 5L Shell Extra 500 ppm diesel with Fuel Stick's Fuel conditioner (Biodegradable).

The sample was received in a condition suitable for testing.

2 SAMPLE HISTORY

Twenty (20) litres of Shell Extra 500 ppm diesel was treated with Fuel Stick Fuel Conditioner and 5 liters were taken as a sample for testing.

3 SAMPLE SUBMITTED

Sample receipt date: 2010/12/06
Test starting date: 2011/01/04
Test completion date: 2011/01/27

4 TEST REQUESTED

Automotive Diesel Fuel: SANS 342:2006 Edition 4

5 CONCLUSION

The sample complies with the requirements of specification SANS 342:2006 in respect of tests conducted.

6 DISCLAIMER

The sample identity and history was given by the customer.

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SABS COMMERCIAL (Pty) Ltd
Report No. 2112/P4217_{R1}/11/PT

Page 2 of 3

TESTING TO SANS 342:2006

6 RESULTS

Property	Results	Requirements of specification SANS 342
Flash point (IP 34), °C	78.0	55 min.
#Cetane number (ASTM D613)	54.7	45 min.
#Lubricity, corrected wear scar diameter (wsd 1,4) at 60 °C	357	460 max.
#Sulphur content (XRF), % (m/m)	0.05	0.05 max.
Copper strip corrosion, 3h at 100 °C (IP 154), classification	1	1 max.
Cold filter plugging point (IP 154), classification	0	Winter; -4 max. Summer; 3 max.
Carbon residue on 10% (v/v) distillation residue (IP 14), % (m/m)	0.06	0.2 max.
Ash content (IP 4), % (m/m)	0.001	0.01 max.
Water content (ASTMD) 4377), % (m/m)	0.007	0.05 max.
Viscosity at 40 °C (IP 71), mm ² /s	4.077	2.2 to 5.3
Density at 20 °C (IP 365), kg/l	0.8481	0.8000 min.
Distillation (ASTM D86) temperature, °C for 90% (v/v) recovery	349.6	362 max.
Total contamination, mg/kg	2.2	24 max.
#Oxidation Stability, mg/100 ml	0.2	2.0 max.

Subcontracted to another laboratory

This report relates only to the specific sample(s) tested as identified herein. It does not imply SABS approval of the quality and/or performance of the item(s) in question and the test results do not apply to any similar item that has not been tested. (Refer also to the complete conditions printed on the back of official test reports.

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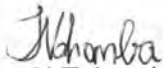
Report No. 2112/P4217_{R1}/11/PT

Page 3 of 3

TESTING TO SANS 342:2006

7 CONCLUSION

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N Tshomba

**Test Officer: Industrial &
Petrochemicals Laboratory
B.Tech Chemistry
ISO/IEC 17025: 2005**



S Mtshemla

**Authorising Test Officer: Industrial &
Petrochemicals Laboratory
B.Tech Chemistry
ISO/IEC 17025: 2005**

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