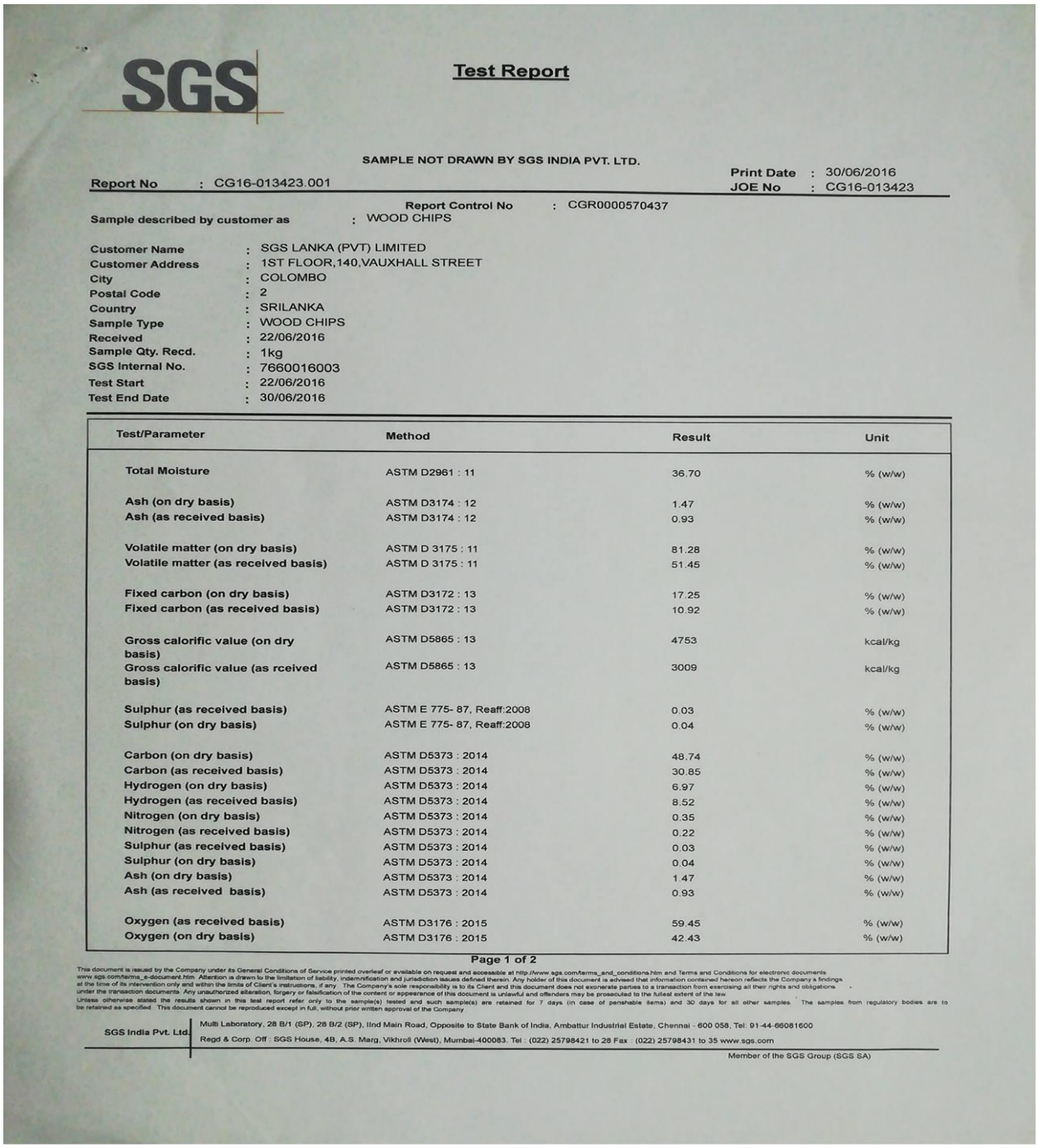
# APPENDECIS

APPENDIX A – SGS Fuel test report



SGS

**Test Report**

SAMPLE NOT DRAWN BY SGS INDIA PVT. LTD.

Report No : CG16-013423.001

Print Date : 30/06/2016
JOE No : CG16-013423

Report Control No : CGR0000570437

Sample described by customer as : WOOD CHIPS

| | |
|---|---|
| Customer Name | : SGS LANKA (PVT) LIMITED |
| Customer Address | : 1ST FLOOR,140,VAUXHALL STREET |
| City | : COLOMBO |
| Postal Code | : 2 |
| Country | : SRILANKA |
| Sample Type | : WOOD CHIPS |
| Received | : 22/06/2016 |
| Sample Qty. Recd. | : 1kg |
| SGS Internal No. | : 7660016003 |
| Test Start | : 22/06/2016 |
| Test End Date | : 30/06/2016 |

| Test/Parameter | Method | Result | Unit |
|---|---|---|---|
| Total Moisture | ASTM D2961 : 11 | 36.70 | % (w/w) |
| Ash (on dry basis) | ASTM D3174 : 12 | 1.47 | % (w/w) |
| Ash (as received basis) | ASTM D3174 : 12 | 0.93 | % (w/w) |
| Volatile matter (on dry basis) | ASTM D 3175 : 11 | 81.28 | % (w/w) |
| Volatile matter (as received basis) | ASTM D 3175 : 11 | 51.45 | % (w/w) |
| Fixed carbon (on dry basis) | ASTM D3172 : 13 | 17.25 | % (w/w) |
| Fixed carbon (as received basis) | ASTM D3172 : 13 | 10.92 | % (w/w) |
| Gross calorific value (on dry basis) | ASTM D5865 : 13 | 4753 | kcal/kg |
| Gross calorific value (as rceived basis) | ASTM D5865 : 13 | 3009 | kcal/kg |
| Sulphur (as received basis) | ASTM E 775- 87, Reaff:2008 | 0.03 | % (w/w) |
| Sulphur (on dry basis) | ASTM E 775- 87, Reaff:2008 | 0.04 | % (w/w) |
| Carbon (on dry basis) | ASTM D5373 : 2014 | 48.74 | % (w/w) |
| Carbon (as received basis) | ASTM D5373 : 2014 | 30.85 | % (w/w) |
| Hydrogen (on dry basis) | ASTM D5373 : 2014 | 6.97 | % (w/w) |
| Hydrogen (as received basis) | ASTM D5373 : 2014 | 8.52 | % (w/w) |
| Nitrogen (on dry basis) | ASTM D5373 : 2014 | 0.35 | % (w/w) |
| Nitrogen (as received basis) | ASTM D5373 : 2014 | 0.22 | % (w/w) |
| Sulphur (as received basis) | ASTM D5373 : 2014 | 0.03 | % (w/w) |
| Sulphur (on dry basis) | ASTM D5373 : 2014 | 0.04 | % (w/w) |
| Ash (on dry basis) | ASTM D5373 : 2014 | 1.47 | % (w/w) |
| Ash (as received basis) | ASTM D5373 : 2014 | 0.93 | % (w/w) |
| Oxygen (as received basis) | ASTM D3176 : 2015 | 59.45 | % (w/w) |
| Oxygen (on dry basis) | ASTM D3176 : 2015 | 42.43 | % (w/w) |

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# Test Report

SAMPLE NOT DRAWN BY SGS INDIA PVT. LTD.

Report No : CG16-013423.003

Print Date : 30/06/2016
JOE No : CG16-013423

Report Control No : CGR0000570437

| Test/Parameter | Method | Result | Unit |
|---|---|---|---|
| Silica (as SiO2) | ASTM C : 114 - 2013 | 87.90 | % (w/w) |
| Aluminum (as Al2O3) | ASTM D : 6349 - 2013 | 1.61 | % (w/w) |
| Iron (as Fe2O3) | ASTM D : 6349 - 2013 | 1.30 | % (w/w) |
| Calcium (as CaO) | ASTM D : 6349 - 2013 | 1.41 | % (w/w) |
| Magnesium (as MgO) | ASTM D : 6349 - 2013 | 0.79 | % (w/w) |
| Sodium (as Na2O) | ASTM D : 6349 - 2013 | 0.07 | % (w/w) |
| Manganese (as MnO) | ASTM D : 6349 - 2013 | 0.07 | % (w/w) |
| Potassium (as K2O) | ASTM D : 6349 - 2013 | 1.47 | % (w/w) |
| Sodium (as Na) | ASTM D : 6349 - 2013 | 0.05 | % (w/w) |
| Titanium (as TiO2) | ASTM D : 6349 - 2013 | 0.27 | % (w/w) |
| Phosphorous (as P2O5) | ASTM D : 6349 - 2013 | 1.39 | % (w/w) |
| Sulphur trioxide (as SO3) | ASTM C : 114 - 2013 | 0.773 | % (w/w) |

Per pro SGS India Private Ltd

L_SIVAKUMAR
Authorized Signatory

****End of Report****



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APPENDIX B

| **Anemometer [Hot wire with temperature sensing probe]** | |
|---|---|
| Type | Digital RS-232 |
| Model | AVM 714 |
| Circuit | Custom one-chip of microprocessor LSI circuit |
| Display | 13 mm (0.5") super large LCD display (dual function meter's display) |
| Sampling Time | approx. 0.8 sec. |
| Operating Temperature | 0°C to +50°C |
| Power supply | 1.5V AAA (UM-4) battery x 6 pcs. (alkaline or heavy duty type) |
| Range | 0.2 to 20 m/s |
| Main Instrument and Telescope Probe Dimension | 180 x 72 x 32 mm & round 72 mm dia., L = 250 to 940 mm |

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