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CERTIFICATE OF ADDITIONAL SAMPLING AND ANALYSIS

SGS Reference: NA23898.F
Vessel: MV Pilatus Venture
Port of Loading: Port of Lyttelton, New Zealand
Port of Discharge: Any Port(s) in India
BL Date: 06 November 2023
Quantity: 55,000 MT
Description of Goods as provided by the client: Echo Semi Soft Coking Coal

THIS IS TO REPORT that in accordance with instructions received from our Principal, Trafigura Pte. Ltd, to perform sampling and analysis of the above mentioned shipment, we hereby report the following;

SAMPLING: MECHANICAL SAMPLING - THIRD PARTY OBSERVED BY SGS, operated as per ISO 13909 Part 2. Samples collected throughout the entire loading of the vessel. Samples were submitted to SGS for analysis.
ANALYSIS: Analysis performed in accordance with ISO Standards or other International Standards and SGS Procedures.

| | | |
|--------------------------|------|---------|
| CSN | | 4.5 |
| HGI | | 59 |
| Phosphorus | (DB) | 0.015 % |
| MMR | | 0.77 % |
| Vitrinite | | 88.0 % |
| Maximum Fluidity | | 2 ddpn |
| Size (0-50mm) | | 100.0 % |
| Ultimate Analysis | | |
| Carbon | (DB) | 77.6 % |
| Hydrogen | (DB) | 5.37 % |
| Nitrogen | (DB) | 1.23 % |
| Sulphur | (DB) | 1.03 % |
| Oxygen | (DB) | 9.47 % |





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Ash Analysis

| | | | |
|--------------------------------|------|------|---|
| SiO ₂ | (DB) | 51.5 | % |
| Al ₂ O ₃ | (DB) | 24.8 | % |
| Fe ₂ O ₃ | (DB) | 16.7 | % |
| CaO | (DB) | 1.48 | % |
| MgO | (DB) | 0.61 | % |
| MnO | (DB) | 0.08 | % |
| Na ₂ O | (DB) | 0.31 | % |
| K ₂ O | (DB) | 1.6 | % |
| TiO ₂ | (DB) | 1.1 | % |
| P ₂ O ₅ | (DB) | 0.63 | % |
| SO ₃ | (DB) | 0.67 | % |

Signed and dated at
Port of Lyttelton, New Zealand
28 November 2023

For and on behalf of
SGS New Zealand Ltd.
as an independent inspection agency at loadport


A. Mayre



SGS Australia Pty. Ltd.
6A Metal Pit Drive, Mayfield West, NSW 2304

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