



Certificate N°: 24092602FA

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AFFILIATE CODE: F290101

26th September 2024
SGS Ref: 200020807 -1

STURROCK GRINDROD MARITIME

CERTIFICATE OF QUALITY

Vessel	: MV SANTOS EAGLE
Loading Port	: Coega, South Africa
Commenced Loading	: 9 th September 2024
Completed Loading	: 20 th September 2024
Actual Wet Weight	: 30 297 WMT
Actual Dry Weight	: 30266.703 Dry Metric Tons
BL Date	: 20 th September 2024
Loaded into	: Holds 1,3 & 5
Goods descriptions as provided by client	: MANGANESE ORE SINTER
Our Reference	: 200020807 -1

This is to certify that in accordance with instructions received from our Principal, we Independent Inspectors of SGS South Africa (Pty) Ltd attended to the vessel loading at load port for the purpose of:

- a) Sampling of cargo during loading
- b) Analysis for particle size, moisture and chemistry

In respect of the following:

CONSIGNMENT

30 297 WMT (Three Zero Two Nine Seven mt) Manganese Ore in Bulk.

On which we report :

DESCRIPTION

The consignment consisted of dull grey, irregular-shaped particles ranging in size ranging from 6 x 100 mm.

HOLD INSPECTION

The vessel arrived in Coega on the 9th of September 2024 at 15:00 pm. Holds 1,3 & 5 were inspected by the client's shipping agent and found suitable to load the Manganese Ore in bulk on the 9th September 2024. Loading commenced on the 9th of September 2024 and was completed on the 20th of September 2024 for the whole vessel.

WEATHER CONDITION

Good weather reported at the time of loading.

SUPERVISION OF LOADING ONTO VESSEL AND SAMPLING

Sampling of the cargo was conducted according to the ISO (4296) standard during the loading operations: A total of Six (6) sub lots each with 150 increments per sub lot were taken at a regular interval. Gross samples were prepared in

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line with international standards to below 75 microns, and sub lot composites were submitted to our laboratory for analysis. Samples were, crushed, reduced to minimum masses, and prepared to quality sample stage below 75 µm and submitted to our laboratory for chemical analysis, this is in line with international best practice. Moisture was determined according to ISO 4299 standard.

Analysis was done by Borate fusion XRF

Results are based on weighted average of Six (6) sub lots covering the full consignment of 30 297mt and are reported on dry bases.

Element	Unit	Actual Result [%]
Manganese as Mn	%	45.28
Iron as Fe	%	6.42
Silicon Oxide as SiO ₂	%	7.14
Calcium Oxide as CaO	%	15.67
Aluminium Oxide as Al ₂ O ₃	%	0.49
Magnesium Oxide as MgO	%	4.12
Phosphorus as P	%	0.022
Sulphur as S	%	0.03

Moisture percentage content in Total Wet weight is: 0.10%

Size: 6X100 MM – Square sieves

Plus 100MM	: 1.00 %
Minus 100MM Plus 6MM	: 93.74%
Minus 6MM	: 5.26%

Signed at Coega, South Africa
 For and On Behalf of SGS South Africa
 On the 26th September 2024



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