

WI-3560

SAMPLING AND ANALYSIS REPORT

In pursuance of an order for inspection given to us,

BY OUR PRINCIPAL : FIRST MINING MADENCILIK SANAYI VE TICARET LIMITED
 ON : 04.12.2020
 TO PERFORM : SAMPLING, SAMPLE PREPARATION AND ANALYSIS
 ON A COMMODITY AS DECLARED : IRON ORE CONCENTRATE – REF: KANAROGLU
 QUANTITY AS DECLARED : 1698,880 WMT
 SAMPLED AT : ISKENDERUN PORT, TURKEY
 LOADED INTO THE VESSEL : MV AZOV CONCORD



We hereby report as follows:

In compliance with the instructions we received, our inspector attended at Port of Iskenderun, Turkey from 06.12.2020 to 07.12.2020 for the sampling operation during dumping of trucks to port area and to be load of the above mentioned commodity to the vessel. Sampling was performed by utilizing a suitable sampling scoop in order to form the gross sample. Gross sample was dried and pulverized for the preparation of final composite assay sample and to be used in the mixture of the final vessel composite sample.

ANALYSIS: Quality assay sample was prepared by our surveyor and analysis was performed on the sample (SGS seal no: 290307) by SGS laboratory in Ankara (Report No. TR20001872 dated 24.12.2020). The laboratory used its own equipment and reagents. According to the laboratory's report, analysis carried out in accordance with the standard methods, the results are as follows:-

Test	Result (%)	Test	Result (%)
Fe	62,76	Zn	0,0150
SiO ₂	7,119	Mn	0,0818
Al ₂ O ₃	2,008	CaO	0,492
P	<0,010	MgO	0,777
S	0,0234	K ₂ O	0,087
Na ₂ O	0,671	TiO ₂	0,7110
Cu	0,0018		

PHYSICAL COMPOSITION:

Particle size distribution of the cargo was determined and following average results were calculated:-

Test	Result (%)
SIZE DETERMINATION	
+10 MM	0
-10+6 MM	0
-6+5 MM	0

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-5+3 MM	0
-3+2 MM	0
-2+1 MM	0,10
-1+0,5 MM	1,12
-0,5+0,15 MM	5,90
-0,15 MM	92,88

MOISTURE DETERMINATION:

Moisture samples were mixed thoroughly and split into approximately two equal parts by weight and dried in duplicate at 105 deg. C, until a constant weight was obtained. Arithmetical average of duplicate moisture results was calculated as follows: -

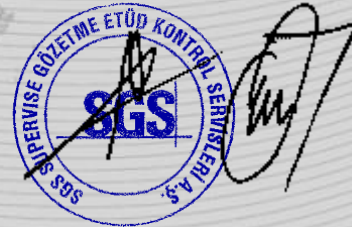
H₂O: 8,36 %

The manual sampling method was agreed with the SGS Principal, as sampling by more reliable methods that provide probability samples was not possible. The Holder of this document is cautioned that collected MANUAL samples of this type do not satisfy the minimum requirements for probability sampling, and as such cannot be used to draw statistical inferences such as precision, standard error, or bias. Due to not being able to access the entire volume of the cargo, the samples collected have indicative value only and will not necessarily be representative of the entire cargo, but only that part accessible and sampled. SGS has no responsibility and / or liability for the consequences of any action taken or not taken on the basis of this certificate / report. The findings of the stored Goods inspection contained herein (the "Findings") strictly relate to and cover examination of part or parts of the Goods safely accessible for inspection in accordance with the client's instructions. The Findings only relate to the time and place of inspection and do not constitute nor are intended to constitute evidence of the existence of part or all of the Goods prior to and after the time of inspection. SGS does not control the storage place of the Goods nor has any responsibility for the storage, custody and safety of the Goods. SGS does not guarantee nor make any representation about i) the accuracy and authenticity of the documents presented by the operator of the storage place (if any); ii) ownership of and title to the Goods; iii) quantity and quality of the Goods. SGS accepts no liability for the consequences of any action taken or not taken on the basis of this certificate/report.

Authorized person : Gulay TASKIRAN (Mining Engineer)

Issued in Istanbul
On 24th December, 2020

For and on behalf of
SGS Supervise Gözetme Etüd
Kontrol Servisleri A. Ş

**SGS Supervise Gözetme Etüd Kontrol Serv. A.Ş.**

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