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### MILL TEST CERTIFICATE

Certificate No : 1000270681  
 Page No : 8 / 20  
 Certificate Date : 21.08.2022  
 Inspection Certificate : EN 10204-3.1  
 Sales Document : 10553524  
 Shipment Number : 1000031814  
 Vessel Name : MV ANTARCTIC OCEAN

DESCRIPTION OF GOODS:  
 ERW STEEL PIPE

Tag Information						Chemical Analysis								Product Information		Mechanical Properties				Other Specifications						
ITEM	TYPE	SIZE	PACK NO	CAST NO	LOT NO	C %	MN %	P %	S %	CU %	NI %	CR %	MO %	V %	PRODUCT NORM	STEEL GRADE	YS psi	TS psi	E %	HT psi	VDC	B	FT	BD	EX	NDT
176	BPEC	1 1/2"x0,145"x21'	MB05821183	222111781	25.505	0.1160	0.4582	0.0071	0.0041	0.0141	0.0010	0.0318	0.0017	0.0024	ASTM A53	A	39015	57145	41,2	1200	G	G	G	G	G	G
177	BPEC	1 1/2"x0,145"x21'	MB05821183	222111781	25.505	0.1160	0.4582	0.0071	0.0041	0.0141	0.0010	0.0318	0.0017	0.0024	ASTM A53	A	39015	57145	41,2	1200	G	G	G	G	G	G
178	BPEC	1 1/2"x0,145"x21'	MB05821184	222111781	25.505	0.1160	0.4582	0.0071	0.0041	0.0141	0.0010	0.0318	0.0017	0.0024	ASTM A53	A	39015	57145	41,2	1200	G	G	G	G	G	G
179	BPEC	1 1/2"x0,145"x21'	MB05821187	222111781	25.505	0.1160	0.4582	0.0071	0.0041	0.0141	0.0010	0.0318	0.0017	0.0024	ASTM A53	A	39015	57145	41,2	1200	G	G	G	G	G	G
180	BPEC	1 1/2"x0,145"x21'	MB05821189	222111781	25.505	0.1160	0.4582	0.0071	0.0041	0.0141	0.0010	0.0318	0.0017	0.0024	ASTM A53	A	39015	57145	41,2	1200	G	G	G	G	G	G
181	BPEC	1 1/2"x0,145"x21'	MB05821182	222111781	25.505	0.1160	0.4582	0.0071	0.0041	0.0141	0.0010	0.0318	0.0017	0.0024	ASTM A53	A	39015	57145	41,2	1200	G	G	G	G	G	G
182	BPEC	1 1/2"x0,145"x21'	MB05821193	222111781	25.505	0.1160	0.4582	0.0071	0.0041	0.0141	0.0010	0.0318	0.0017	0.0024	ASTM A53	A	39015	57145	41,2	1200	G	G	G	G	G	G
183	BPEC	1 1/2"x0,145"x21'	MB05821214	222111907	25.505	0.0790	0.4178	0.0093	0.0049	0.0089	0.0010	0.0308	0.0039	0.0019	ASTM A53	A	40030	58595	40,6	1200	G	G	G	G	G	G
184	BPEC	1 1/2"x0,145"x21'	MB05821215	222111907	25.505	0.0790	0.4178	0.0093	0.0049	0.0089	0.0010	0.0308	0.0039	0.0019	ASTM A53	A	40030	58595	40,6	1200	G	G	G	G	G	G
185	BPEC	1 1/2"x0,145"x21'	MB05821240	222111907	25.505	0.0790	0.4178	0.0093	0.0049	0.0089	0.0010	0.0308	0.0039	0.0019	ASTM A53	A	40030	58595	40,6	1200	G	G	G	G	G	G
186	BPEC	1 1/2"x0,145"x21'	MB05821241	222111907	25.505	0.0790	0.4178	0.0093	0.0049	0.0089	0.0010	0.0308	0.0039	0.0019	ASTM A53	A	40030	58595	40,6	1200	G	G	G	G	G	G
187	BPEC	1 1/2"x0,145"x21'	MB05821243	222111907	25.505	0.0790	0.4178	0.0093	0.0049	0.0089	0.0010	0.0308	0.0039	0.0019	ASTM A53	A	40030	58595	40,6	1200	G	G	G	G	G	G
188	BPEC	1 1/2"x0,145"x21'	MB05821245	222111907	25.505	0.0790	0.4178	0.0093	0.0049	0.0089	0.0010	0.0308	0.0039	0.0019	ASTM A53	A	40030	58595	40,6	1200	G	G	G	G	G	G
189	BPEC	2"x0,154"x21'	MB05709423	2121540	25.505	0.1352	0.4053	0.0108	0.0171	0.0628	0.0254	0.0336	0.0317	0.0078	ASTM A53	A	39305	58015	41,5	2300	G	G	G	G	G	G
190	BPEC	2"x0,154"x21'	MB05789635	222011493	25.505	0.0891	0.4439	0.0057	0.0010	0.0064	0.0010	0.0213	0.0010	0.0012	ASTM A53	A	41181	59756	40,7	2300	G	G	G	G	G	G
191	BTCC	2"x0,154"x21'	MB05783465	222011575	25.505	0.0878	0.4393	0.0095	0.0068	0.0133	0.0118	0.0259	0.0240	0.0021	ASTM A53	A	41191	59756	40,7	2300	G	G	G	G	G	G
192	BTCC	2"x0,154"x21'	MB05783572	222011575	25.505	0.0878	0.4393	0.0095	0.0068	0.0133	0.0118	0.0259	0.0240	0.0021	ASTM A53	A	40901	58190	41,3	2300	G	G	G	G	G	G
193	BTCC	2"x0,154"x21'	MB05783729	222011557	25.505	0.0867	0.4208	0.0028	0.0029	0.0100	0.0010	0.0152	0.0044	0.0013	ASTM A53	A	41191	59756	40,7	2300	G	G	G	G	G	G
194	BTCC	2"x0,154"x21'	MB05823089	222011575	25.505	0.0878	0.4393	0.0095	0.0068	0.0133	0.0118	0.0259	0.0240	0.0021	ASTM A53	A	41191	59756	40,7	2300	G	G	G	G	G	G
195	BTCC	2"x0,154"x21'	MB05823100	222011575	25.505	0.0878	0.4393	0.0095	0.0068	0.0133	0.0118	0.0259	0.0240	0.0021	ASTM A53	A	35824	55114	43,6	2200	G	G	G	G	G	G
196	BTCC	3"x0,216"x21'	MB05826079	222011819	25.505	0.1012	0.4889	0.0078	0.0027	0.0115	0.0010	0.0209	0.0039	0.0025	ASTM A53	A	35824	55114	43,6	2200	G	G	G	G	G	G
197	BTCC	3"x0,216"x21'	MB05826080	222011819	25.505	0.1012	0.4889	0.0078	0.0027	0.0115	0.0010	0.0209	0.0039	0.0025	ASTM A53	A	35824	55114	43,6	2200	G	G	G	G	G	G
198	BTCC	3"x0,216"x21'	MB05826091	222011819	25.505	0.1012	0.4889	0.0078	0.0027	0.0115	0.0010	0.0209	0.0039	0.0025	ASTM A53	A	35824	55114	43,6	2200	G	G	G	G	G	G
199	BTCC	3"x0,216"x21'	MB05826092	222011819	25.505	0.1012	0.4889	0.0078	0.0027	0.0115	0.0010	0.0209	0.0039	0.0025	ASTM A53	A	35824	55114	43,6	2200	G	G	G	G	G	G
200	BTCC	3"x0,216"x21'	MB05826100	222011819	25.505	0.1012	0.4889	0.0078	0.0027	0.0115	0.0010	0.0209	0.0039	0.0025	ASTM A53	A	35824	55114	43,6	2200	G	G	G	G	G	G

YS : Yield Strength ( psi )  
 TS : Tensile Strength ( psi )  
 E : Elongation (%)  
 HT : Hydrostatic Test ( psi )  
 HT TIME : Hydrostatic Second  
 NDT : Non Destructive Examination  
 VDC : Dimensional Check  
 EX : Expanding  
 FT : Flattening  
 BD : Bending  
 B : Beveling  
 G : Good

BPEC : COATED BLACK PLAIN END  
 BTCC : PRN COA BLACK THRESCOP PIPE

APPROVED BY  
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*[Signature]*  
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These results are certified by TOSÇELİK PROFİL SAC VE END. A.S. and comply with the requirements of the product description.  
 The material contains no mercury and the lead content is less than 0,01% (0,0001).  
 The material to which this MTR refers was manufactured in Turkey.  
 Heat treatment has applied all GRB sizes which starts from 2".