

Cleveland-Cliffs Burns Harbor LLC
 QUALITY ASSURANCE REPORT OF TEST AND ANALYSIS

US HWY 12 Burns Harbor, Indiana

SHIPMENT NO. 803-91156	DATE SHIPPED 09-15-22	CAR OR VEHICLE NO. CSS-CHGO-BNSF	LMIC 007069
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S E R I A L	S H I P P I N G	SIZE AND QUANTITY				YIELD POINT	TENSILE STRENGTH	AF FRAC ELONG.	RED.
		THICKNESS	WIDTH OR DIA.	LENGTH	WEIGHT				

SERIAL NUMBER	PAT NO.	HEAT NUMBER	NO. PCS.	THICKNESS	WIDTH OR DIA.	LENGTH	WEIGHT	YIELD POINT	TENSILE STRENGTH	AF FRAC ELONG.	RED.
				INCHES	INCHES	INCHES	POUNDS	PSI	PSI	IN	%

QUALITY STEEL MELTED & MANUFACTURED IN THE U. S. A.
 PLATES - ABS GR DH36 KLD FINE GRAIN PRAC REV 2022 CE=.38X PER IIW FORMULA,
 ABS GR AH36 REV 2022, ASTM A131-19 GR DH36, ASTM A131-19 GR AH36,
 ASTM A572-21 GR 50, MIL-S 22698C GR DH36 AMEND 2 CLASS U, ASTM
 A709-21 GR 50, CSA G40.21 GR 50WT CAT 3, AASHTO M270-20 GR 50, CH-V
 A673 FREQ (H) L 26/18 FTLBS AT -22F --- PLT CONTROL ROLL --- IN
 ACCORDANCE WITH EN 10204:2004 TYPE 3.1 10204:2004 TYPE 3.1
 NO WELD REPAIR WAS PERFORMED ON BELOW PLATE(S)
 CO# 131646 GH 391-0643B
 MERCURY IN ANY FORM HAS NOT BEEN USED IN THE PRODUCTION OF THIS ORDER
 OUTSIDE INSPECTION BY AMERICAN BUREAU OF SHIPPING
 811Y00490 1 3/8 120 479 6112 69800 77200 2 40
 (M55)MFST REF#:3

Certified a true copy of the original, retained in our file.
AMERICAN ALLOY STEEL
 Reviewed By:
Jk 10/5/2022


Q-QUENCH TEMPERATURE	T-TEMPERATURE	N-NORMALIZE TEMPERATURE
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WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN MADE BY THE CLEVELAND-CLIFFS BH PLANT TO THE APPLICABLE SPECIFICATION BY AN APPROVED PROCESS AND HAS BEEN TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AMERICAN BUREAU OF SHIPPING RULES FOR THE INSPECTION AND TESTING OF MATERIALS TO THE SATISFACTION OF THE SURVEYORS.

SERIAL NUMBER	PAT NO.	HEAT NUMBER	HARD BHN	BEND	THICKNESS INCHES	TYPE	SIZE	D I R	TEST TEMP F	ENERGY			CHARPY IMPACT			LAT. EXP			MILS
										1	2	3	FT	LBS	1	2	3	1	
811Y00490					.375	V	3/4	L	-22	208	198	125							

HEAT NUMBER	CHEMICAL ANALYSIS																MAGNIFIED GRAIN SIZE
	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Ti	Al	B	Cb	N	Sn	

811Y00490 .07 1.29 .008 .003 .222.027 .02 .03.007.047.016.043.0002 .029.003.001
 CE
 .30

 Surveyor Name **JOAO RENATO DA SILVA**
 Employee ID **20075**
 Workorder No. **6473182**
 Document Status **Reviewed**

CHICAGO PORT
PARID HASSANI PER MWT

Notice that the above results are a final and correct copy of actual results contained in reports maintained by Cleveland-Cliffs Burns Harbor LLC and are in full compliance with the requirements of the specification cited above. This test report cannot be altered and must be transmitted intact with any subsequent third party test reports, if required.

SUPV. QUALITY ASSURANCE
 Form BHPLTRPT.TF

PLATE #100635