

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

US HWY 12 Burns Harbor, Indiana

SHIPMENT NO. 8KU-02766	DATE SHIPPED 11-30-21	CAR OR VEHICLE NO. CUSTOMER TRUCK	T	102	PAGE 1
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S O L D T O					S H I P T O						
	SERIAL NUMBER	PAT NO.	HEAT NUMBER	NO. PCS.		THICKNESS	WIDTH OR DIA.	LENGTH	WEIGHT	YIELD POINT	TENSILE STRENGTH

SIZE AND QUANTITY												
INCHES	INCHES	INCHES	POUNDS	PSI	PSI	IN	%					

QUALITY STEEL MELTED & MANUFACTURED IN THE U. S. A.

PLATES - AASHTO M-270-20 GR 36 KLD FINE
GRAIN PRAC, ASTM A709-18 GR 36,
ASME SA36 2019 EDITION, ASTM A36-19
GR 36 --- IN ACCORDANCE WITH EN
10204:2004 TYPE 3.1 10204:2004 TYPE
3.1

MFST - MFST MILL SERIAL# & PATTERN# MFST PROC ON
GH820-6362A MFST IN ACCORDANCE WITH EN
10204:2004 TYPE 3.1 MFST 10204:2004 TYPE 3.1

CO#	SSW124707												
	812T37370	1	.75	96	240	4901	45000	67200	8	29			
T57110004	822T39020	1	.75	96	240	4901	43200	67300	8	27			
							48900	69600	8	29			
T57110104	822T39020	1	.75	96	240	4901	43200	67300	8	27			
							48900	69600	8	29			
T57110105	813T70050	1	.75	96	240	4901	42700	66000	8	25			
							44000	66600	8	31			
T57300903													

Q-QUENCH TEMPERATURE

T-TEMPERATURE

N-NORMALIZE TEMPERATURE

SERIAL NUMBER	PAT NO.	HEAT NUMBER	HARD BHN	BEND	THICKNESS INCHES	TYPE	SIZE	D I R	TEST TEMP F	CHARPY IMPACT								
										ENERGY FT LBS			SHEAR(%)			LAT. EXP MILS		
										1	2	3	1	2	3	1	2	3

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

812T37370	.14	1.06	.011	.006	.251	.025	.01	.02	.004	.002	.002	.033	.0002	.002	.004	.004
822T39020	.13	1.16	.013	.005	.249	.022	.01	.03	.007	.002	.002	.031	.0002	.002	.002	.003
813T70050	.14	1.09	.013	.005	.250	.021	.01	.03	.006	.001	.002	.028	.0002	.002	.005	.003

I certify that the above results are a true and correct copy of actual results contained in records 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.

Cleveland-Cliffs Burns Harbor LLC

QUALITY ASSURANCE REPORT OF TEST AND ANALYSIS

US HWY 12 Burns Harbor, Indiana

SHIPMENT NO. 8KU-02767	DATE SHIPPED 11-30-21	CAR OR VEHICLE NO. CUSTOMER TRUCK	T 102	PAGE 2
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S O L D T O N O T E	SIZE AND QUANTITY				YIELD POINT	TENSILE STRENGTH	AF FRAC. ELONG.	RED.
	SERIAL NUMBER	PAT NO.	HEAT NUMBER	NO. PCS.				
	THICKNESS	WIDTH OR DIA.	LENGTH	WEIGHT				
	INCHES	INCHES	INCHES	POUNDS	PSI	PSI	IN	%

QUALITY STEEL MELTED & MANUFACTURED IN THE U. S. A.

PLATES - AASHTO M-270-20 GR 36 KLD FINE
GRAIN PRAC, ASTM A709-18 GR 36,
ASME SA36 2019 EDITION, ASTM A36-19
GR 36 --- IN ACCORDANCE WITH EN
10204:2004 TYPE 3.1 10204:2004 TYPE
3.1

MFST - MFST MILL SERIAL# & PATTERN# MFST PROC ON
GH820-6361A MFST IN ACCORDANCE WITH EN
10204:2004 TYPE 3.1 MFST 10204:2004 TYPE 3.1

CO# SSW124708	812T37370	1	.75	96	240	4901	45000	67200	8	29
T57110003	822T39020	1	.75	96	240	4901	43200 48900	67300 69600	8	27 29
T57110101	822T39020	1	.75	96	240	4901	43200 48900	67300 69600	8	27 29
T57110102										

Q-QUENCH TEMPERATURE

T-TEMPER TEMPERATURE

N-NORMALIZE TEMPERATURE

SERIAL NUMBER	PAT NO.	HEAT NUMBER	HARD BHN	BEND	THICKNESS INCHES	TYPE	SIZE	D I R	TEST TEMP F	CHARPY IMPACT								
										ENERGY FT LBS			SHEAR(%)			LAT. EXP MILS		
										1	2	3	1	2	3	1	2	3

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

812T37370	.14	1.06	.011	.006	.251	.025	.01	.02	.004	.002	.002	.033	.0002	.002	.004	.004
822T39020	.13	1.16	.013	.005	.249	.022	.01	.03	.007	.002	.002	.031	.0002	.002	.002	.003

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