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PRODUCT CERTIFICATION

MFG LOT NBR
JO3264-106597
BILL OF LADING
00605593

HEAT NUMBER
JO3264
SALES ORDER/LINE
228088 / 002
CERT ID / REV
00328837 / 01

CUSTOMER P.O.	CUSTOMER PART	QUANTITY	BUNDLE(S)	TOTAL PIECES	GRADE	SHIPMENT DATE
44862	N/A	25,920	5	240	A36/A529	03/18/2022

PART NUMBER: **SC020952000ZZ** DESCRIPTION: **Channel 4" x 5.4 20'0" A36/A529**

Alt Certs

ASTM A36/A36M-19 | ASTM A36/A36M-19 CU BEARING | ASTM A529/A529M-19 GR50 | ASTM A572/A572M-18 GR50 Type 2 |
ASTM A709/A709M-18 GR36 | ASTM A709/A709M-18 GR36 CU BEARING | ASTM A709/A709M-18 GR50 Type 2 | CSA
G40.21-13 GR44W | CSA G40.21-13 GR50W | AASHTO M270/M270M-15 GR36 | AASHTO M270/M270M-15 GR36 CU BEARING |
AASHTO M270/M270M-15 GR50 Type 2 | ASME SA36/SA36M-19 (01JUL19) | ASME SA572/572M-17 GR50T2 (01JUL19)

Chemical

C	Mn	S	P	Si	Cr	Ni	Mo	Cu	V	Nb	CE
0.14	1.03	0.027	0.007	0.24	0.09	0.07	0.02	0.26	0.020	0.002	0.40

Yield Tensile Elongation

	Yld-1 (KSI)	Yld-1 (MPa)	Ultimate-1 (KSI)	Ultimate-1 (MPa)	Elong8" (%)
Sample-1	53.0	365	76.0	524	30
	Yld-2 (KSI)	Yld-2 (MPa)	Ultimate-2 (KSI)	Ultimate-2 (MPa)	Elong8" (%)
Sample-2	54.0	372	76.0	524	29

Approved ABS QA Mill. Certificate Nos. QA-3296994 and STML T1628063. This Material was melted and manufactured in our plant located in Roanoke, VA, USA, by basic Electric Furnace process(es) to meet the "ordered" Grade. Mercury, Radium or other Alpha source materials in any form have not been used in the production of this material. No Weld repair has been performed. Any tensile values stated herein either inch-pound units or SI units are to be regarded as separate as defined in the ASTM scope for this material. All samples tested are full size and in an "as-rolled" condition. Unless a metric specification is ordered, this material has been tested and meets the requirements of the inch-pound ranges.

This is to certify the above to be a true and accurate report as contained in the records of this company.

END OF CERTIFICATION

Metallurgist: Zach Schiemann