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PRODUCT CERTIFICATION

MFG LOT NBR
JP3661-362781
 BILL OF LADING
00633184

HEAT NUMBER
JP3661
 SALES ORDER/LINE
255851 / 001
 CERT ID / REV
00413549 / 01

CUSTOMER P.O.	CUSTOMER PART	QUANTITY	BUNDLE(S)	TOTAL PIECES	GRADE	SHIPMENT DATE
59026	N/A	30,600	6	450	A36/A529	09/22/2023

PART NUMBER:	FL013452000ZZ	DESCRIPTION:	Flat 1/4 x 4 20'0" A36/A529
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Alt Certs

ASTM A36/A36M-19 | ASTM A36/A36M-19 CU BEARING | ASTM A529/A529M-19 GR50 | ASTM A529/A529M-19 GR55 | ASTM A529/A529M-19 GR55 (S78) | ASTM A572/A572M-21 GR50 Type 2 | ASTM A572/A572M-21 GR55 Type 2 | ASTM A576-17 1019 | ASTM A709/A709M-21 GR36 | ASTM A709/A709M-21 GR36 CU BEARING | ASTM A709/A709M-21 GR50 Type 2 | CSA G40.21-13 GR44W | CSA G40.21-13 GR50W | CSA G40.21-13 GR55W | AASHTO M270/M270M-20 GR36 | AASHTO M270/M270M-20 GR36 CU BEARING | ASME SA36/SA36M-19 (01JUL19) | ASME SA572/572M-17 GR50T2 (01JUL19)

Chemical

C	Mn	S	P	Si	Cr	Ni	Mo	Cu	V	Nb	CE
0.15	0.93	0.031	0.010	0.23	0.08	0.10	0.02	0.45	0.020	0.001	0.41

Yield Tensile Elongation

Sample	Yld-1 (KSI)	Yld-1 (MPa)	Ultimate-1 (KSI)	Ultimate-1 (MPa)	Elong8" (%)
Sample-1	56.0	386	77.0	531	26
Sample	Yld-2 (KSI)	Yld-2 (MPa)	Ultimate-2 (KSI)	Ultimate-2 (MPa)	Elong8" (%)
Sample-2	57.0	393	77.0	531	28

Approved ABS QA Mill. Certificate Nos. QA-5138616 and STML T2243895. 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: Jacob Nott