Date: 10/1/2024 To: SENTRY SUPPLY dba SO#: A840845 Ln#: 1 PO#: PO252017-08 Part: W3630255* Qty: 1 Heat#: 503577*

Tag: B13093024

Invoice No.	948444
Bill of Lading	372548
Customer No.	0883
Customer P.O	SSW104946

NUCOR-YAMATO STEEL CO.

P.O. BOX 1228: BLYTHEVILLE, AR 72316

	CERTIFIED MIL	L TEST REPORT									
100% Melted and Manufactured in U.S.A											
All Shapes produced by Nucor-Yamato Steel are cast and rolled to a fully											
killed and fine grai	n practice										
Date	2019-04-02										

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S H I I P T T O

ASTM A992/A992M-11 A572/A572M GR50-15 ASTM A709/A709M-15 GR50 (345) ASTM A709/A709M-15 GR50S (345S) CSA G40.21-13 50WM (345WM) ASTM A6/A6M-14

Γ	П	n# Item Description	QΤY	Y Heat#	Mechanical Properties								Chemical Properties														
n	tem				Yield to Tensile Ratio	Viold Strangth	th Tensile Strength	ELONG	Charpy Impact		act																
									Temp	Impa	ct Energ	y Loc		Mn	D	s	c:	c		C -		v	C1			Pcm	СІ
						KSI	KSI	%	° F	* F ft*	ft• lbf			ן נ	C IVIN		"	Si	Cu	Ni	Cr	Mo	٧	Cb	CE		
						MPa	MPa	%	° C		j																
	1	W36X302.0 55 ft 0 in W920X449 (16.76 m)	1	503563	0.79 0.79	57 57 393 394	72 73 499 500	25 25					.07	1.32	.012	.022	.24	.29	.13	.10	.04	.05	.002	.36	.02	.17	
	2	W36X302.0 55 ft 0 in W920X449 (16.76 m)	1	503577	0.79 0.77	57 55 392 381	72 71 496 493	26 26					.07	1.30	.016	.025	.26	.33	.13	.20	.04	.04	.001	.37	.01	.18	

ELONGATION BASED ON 8.00 INCH GAUGE LENGTH

Pcm= C+Si/30+Mn/20+Cu/20+Ni/60+Cr/20+Mo/15+V/10+5B(B=Approx .0005)

Corrosion Index= 26.01(%Cu)+3.88(%Ni)+1.2(%Cr)+1.49(%Si)+17.28(%P)-7.29(%Cu)(%Ni)-

9.10(%Ni)(%P)-33.39(%Cu)^2

ISO 9001:2015 certified (Registration # 0985-07).

All mechanical testing is performed by the Quality Testing Lab, which is independent of the production departments.

The Charpy machine striker geometry used by Nucor-Yamato Steel is the 8 mm (0.315")striker (KV_R) per ASTM A370 Section 22.1.2 and ISO 148-1 Section 7.3.

I hereby certify that the contents of this report are accurate and correct. All test results and operations performed by this material manufacturer are in compliance with the requirements of the material specifications, and when designated by the purchaser, meet the applicable specifications.

Chief Metallurgist

State of Arkansas

County of Mississippi

Sworn to and subscribed before me

CARBON EQUIVALENT CE= C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15

Mercury has not been used in the direct manufacturing of this material

This material was produced in accordance with the Nucor-Yamato Steel Quality Manual.

on 2019-04-02

My commission expires on 07/17/2023

NOTARY PUBLIC