

Test Certificate

Form TC1: Revision 3: Date 7 Feb 2018

Customer:		Cust	Customer P.O.No.:M2054 Mill Order No. 41-53								S2973-02 Shipping Manifest: UR160104											
SWEDISH STEEL AB MEXICO, S.A. DE C.V. BATALLON SAN PATRICIO 109 LOCAL 403 VALLE OTE						Product Description: HARDOX 450 ABRASION RESISTANT STEE							TEEL PLATE Cert Dat					Date: 23 May 18 Cert No: 850186206 Date: 23 May18 (Page 1 of 1) 1)				
SAN PEDRO GARZA GARCIA						Heat Treat Type: QUENCHED																
NL 66269			Size: 7.90 X 2438 X 7315 (MM)																			
Tested Pieces:						Tensiles:										Impact Tests						
Heat Id	Piece Id	Piece Dimensions		(MPA)	UTS (MPA)	%RA	Elong % 50 200 (mm)		Hardne			Energ 3			% Shear 2 3 Av	g Tst	Tst Dir	Tst Siz (mm)	BDWTT Tmp %Shr			
E8D193	F54	8.02 (DISCRT)	С						454 HBW	/												
Heat							Chen	nical An	alysis													
ld	С	Mn P	S	Si	Tot Al S	DIAI (Cr	Mo	Cb	v	т	i S	n	B N	Ca	IIW		ORGN			
E8D193	.18	1.41 .009	.0001 .	.24 .(.06	60 .12	.06	.14	.03	.014	.007	.014	.00	5 .00	.0040	.0018 .4	6		USA			
ACCESS MERCUR OF THI CEV (I MTR EN NO WEL THE E-1 MATERI PRODUC	S PRODUC' IW) = C 10204:20 D REPAIR MAIL ADD	ONE A METALLUR(F. + MN/6 + ((004 INSPECT: HAS BEEN PI RESS FOR ME: D BELOW WITH ED:	CR+MO+V ION CER ERFORME XICO IM)/5 + TIFICA D ON T PORT P	(NI+CU TE 3.1 HIS MA URPOSE IS PR)/15 COMPL TERIAL S IS M	JIANT EXICO.C FROM C	ERTIF: OIL		SSAB	. COM .			DDED	DURING T	HE MANU	FACTUR	E				
(P)	Cust	Part #: 1753	3				TESTE	D IN AC	CORDANC TS OF, TH	CE W	ITH, AN	ID MEE	TS THE		-	I <mark>USTIN Wa</mark> R METALLU						