

PAGE : 1 / 1		MILL TEST & INSPECTION CERTIFICATE																		DATE OF ISSUE : 2026-06-23																																																									
CERTIFICATE NO. : PE202606-0096-000756(7000125)		SeAH Steel HEAD OFFICE; SEAH TOWER, 45 YANGHWA-RO, MAPO-GU, SEOUL, KOREA POHANG PLANT ; 136, GOEDONG-RO, NAM-GU, POHANG, KOREA																																						L/C No. (P/O No.) : PO26100031(91-1255)																																					
COMMODITY : H.F.W STEEL PIPE																																								CUSTOMER : SIXGEN TRADING COMPANY LLC																																					
SPECIFICATION : API 5L X52M PSL2(46th)/ASTM A53B(2024)/ASME SA53B(2025)																																								SHIPPER : SEAH STEEL AMERICA,INC.																																					
NO.		HEAT NO. (BATCH NO.)		TYPE		ORDER SIZE																		QUANTITY						REMARK																																															
				*1																				PCS			TOTAL LENGTH																					WEIGHT(FT/T)																													
1		ZP1198 (SAA4302030)		BBE		8,5/8 " X 0.500 " X 42.000 FT																		94			3,948.000 FT			77.776			* CONFIRM TO NACE MR 0175 & MR 0103 (CHEMICAL COMPOSITION, HEAT TREATMENT AND HARDNESS VALUE ONLY) * HARDNESS TEST RESULT : Max. Value * TENSILE SPECIMEN : RECTANGULAR (1L90-WIDTH 1", 1T180 & 1W-WIDTH 1½") * UT/ET CALIBRATION REFERENCE : Φ 3.2MM DRILLED HOLE * IMPACT TEST SPECIMEN(3T90/2V) : * HEAT TREATMENT TEMPERATURE OF WELD SEAM : MIN 900°C * METALLOGRAPHIC TEST ; GOOD Steel Making :NSC(JAPAN) Coil Rolling : NSC(JAPAN)																																												
NO.		HEAT NO. (BATCH NO.)		HYDRO STATIC TEST		COLLAPSE		N · D · T		V D I I S M U E A N L S I &		F L A T T E N I N G		R · M · T (Gs)		B E N D I N G		D R I F T		CHEMICAL COMPOSITION(%)																		TENSILE TEST						IMPACT TEST(0 °C)								Drop Weight Tear Test			HARDNESS TEST		HEAT TREATMENT																				
		5 Sec.		RESUL T														D E S I G		C		Si		Mn		P		S		Cu		Ni		Cr		Mo		V		Nb		Ti		B		Pcm		CEQ		D I R		TENSILE STRENGTH		YIELD STRENGTH		Y.R %		E.L %		L O C		ENERGY (Joule)				SHEAR AREA (%)				()			HV		SN		
		psi																		2		3		2		2		2		2		3		3		3		4		C1				psi		psi				%9		%10		1 2 3 AVE		1 2 3 AVE		1 2 AVE				*11															
SPEC												30						MAX MIN		22		45		120		25		15		40		40		40		15		50		50		40		10		25				110200 66700		76900 52200		93 27				21		27						250											
1		ZP1198 (SAA4302030)		2970		G				G		G		G						H		7		20		94		13		2		1		1		1		0		1		16		15				13				T W		74110 77010		67440		91 41		B		207 270 296 258		100 100 100 100						207		G					
N O T E		*1 ~ *12: Refer To Others		O T H E R S		*1-BBE:BLACK BEVELED END(30°~ 35°) *G:GOOD *R.M:Residual Magnetism(Gauss) *DIR:Direction *LOC:Location *2-U:U:Weld Seam Ultrasonic Test *5-(Analysis)-H:Heat, P:Product *6-0:Values below Significant Figure, 2:X1/100, 3:X1/1000, 4:X1/10000 *9-E.L:Elongation(GL-2") *8-T:Base Transverse,W:Weld Transverse *10-B:Base*11-S.N:Seam Normalizing(Weld and H.A.Z)/Min. 871°C *12-C1(X100):C+Si/30+Mn/20+Cu/20+Ni/60+Cr/20+Mo/15+V/10+5B																																						* THIS CERTIFICATE IS ISSUED ACCORDING TO EN 10204 3.1 ; 2004 ISO 10474 3.1 ; 2013(3.1.B;1991)																																	
We hereby certify that the material herein has been made and tested in accordance with above specification and the results of all test are acceptable. In case of improper use other than the indicated on this certificate may cause safety hazard and/or monetary problems. All copyrights belong to SeAH, and there will be legal liability or disadvantages if someone else forges this MTR. This mill test report is not related the accreditation standard (KS Q ISO/IEC 17025, operation instructions and etc.)and KOLAS accreditation.																																																										J. M. Kim Manager of Q.M Dept.										SeAH									

NO.	HEAT NO. (BATCH NO.)	TYPE	ORDER SIZE																QUANTITY									REMARK																				
		*1																	PCS	TOTAL LENGTH						WEIGHT(FT/T)			* CONFIRM TO NACE MR 0175 & MR 0103 (CHEMICAL COMPOSITION, HEAT TREATMENT AND HARDNESS VALUE ONLY) * HARDNESS TEST RESULT ; Max. Value * TENSILE SPECIMEN : RECTANGULAR (1L90-WIDTH 1", 1T180 & 1W-WIDTH 1½") * UT/ET CALIBRATION REFERENCE : Φ 3.2MM DRILLED HOLE * IMPACT TEST SPECIMEN(3T90/2V) : * HEAT TREATMENT TEMPERATURE OF WELD SEAM : MIN 900°C * METALLOGRAPHIC TEST ; GOOD Steel Making :NSC(JAPAN) Coil Rolling : NSC(JAPAN)																			
1	ZP1198 (SAA4302030)	BBE	8,5/8 " X 0.500 " X 42.000 FT																94	3,948.000 FT						77.776																						
NO.	HEAT NO (BATCH NO.)	HYDRO STATIC TEST		C O L L A P S E	N · D · T U	V D I S M U E A N L S I &	F L A T T E N I N G	R · M · T (Gs)	B E N D I N G	D R I F T	CHEMICAL COMPOSITION(%)																TENSILE TEST					IMPACT TEST(0 °C)								Drop Weight Tear Test			HARD NESS TEST	HEAT TREAT MENT				
		5 Sec.	R E S U L T								D E S I G	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	Nb	Ti	B	Pcm	CEQ	D I R	TENSILE STRENGTH	YIELD STRENGTH	Y.R %	E.L %	L O C	ENERGY (Joule)				SHEAR AREA (%)											
		psi										2				3		2	2	2	2	3	3	3	4	C1		psi	psi		% %	% %										()			HV	SN		
												*6												*12	*7	*8												1 2 AVE			1 2 AVE							
												MAX MIN	22	45	120	25	15	40	40	40	15	50	50	40	10	25									110200 66700	76900 52200	93 27		21				27					
I	ZP1198 (SAA4302030)	2970	G		G	G	G	G		H P P -	7 8 8 B	20 21 21 L	94 95 95 A	13 13 14 N	2 2 3 K	1 2 2 -	1 1 1 -	1 2 2 -	0 0 0 -	1 4 4 -	16 14 14 -	15 15 15 -	13 14 14 -		T W	74110 77010	67440	91 41	41	B	207	270	296	258	100	100	100	100					207	G				
N O T E	*1 ~ *12: Refer To Others	O T H E R S	*1-BBE:BLACK BEVELED END(30°~ 35°) *G:GOOD *R.M:Residual Magnetism(Gauss) *DIR:Direction *LOC:Location *2-U:U:Weld Seam Ultrasonic Test *5-(Analysis)-H:Heat, P:Product *6-0:Values below Significant Figure, 2:X1/100, 3:X1/1000, 4:X1/10000 *9-E.L:Elongation(GL-2") *8-T:Base Transverse,W:Weld Transverse *10-B:Base*11-S.N:Seam Normalizing(Weld and H.A.Z)/Min. 871°C *12-C1(X100);C+Si/30+Mn/20+Cu/20+Ni/60+Cr/20+Mo/15+V/10+Sb																												* THIS CERTIFICATE IS ISSUED ACCORDING TO EN 10204 3.1 ; 2004 ISO 10474 3.1 ; 2013(3.1.B;1991)																	

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PAGE : 1 / 2

CERTIFICATE NO. : PE202606-0122-000782(5032711)

COMMODITY : H.F.W STEEL PIPE

SPECIFICATION : API 5L X52M PSL2(46th)/ASTM A53B(2024)/ASME SA53B(2025)

MILL TEST & INSPECTION CERTIFICATE

SeAH Steel

HEAD OFFICE; SEAH TOWER, 45 YANGHWA-RO, MAPO-GU, SEOUL, KOREA
POHANG PLANT ; 136, GOEDONG-RO, NAM-GU, POHANG, KOREA

DATE OF ISSUE : 2026-06-23

L/C No. (P/O No.) : PO26100031(91-1255)

CUSTOMER : SIXGEN TRADING COMPANY LLC

SHIPPER : SEAH STEEL AMERICA,INC.

NO.	HEAT NO. (BATCH NO.)	TYPE	ORDER SIZE	QUANTITY			REMARK
		*1		PCS	TOTAL LENGTH	WEIGHT(FT/T)	
1	V83497 (SAA6012030)	BBE	8,5/8 " X 0.500 " X 42.000 FT	51	2,142.000 FT	42.197	* CONFIRM TO NACE MR 0175 & MR 0103 (CHEMICAL COMPOSITION, HEAT TREATMENT AND HARDNESS VALUE ONLY) * HARDNESS TEST RESULT ; Max. Value * TENSILE SPECIMEN : RECTANGULAR (1T180 & 1W-WIDTH 1½") * UT CALIBRATION REFERENCE : Φ 3.2MM DRILLED HOLE * IMPACT TEST SPECIMEN(3T90/2V) : Full Size * METALLOGRAPHIC TEST ; GOOD * JD FIELDS Steel Making :HYUNDAI STEEL (KOREA) Coil Rolling : HYUNDAI STEEL (KOREA)
2	V74611 (SAA6012040)	BBE	8,5/8 " X 0.500 " X 42.000 FT	18	756.000 FT	14.893	
3	V83663 (SAA6012050)	BBE	8,5/8 " X 0.500 " X 42.000 FT	11	462.000 FT	9.102	
4	V83501 (SAA6012060)	BBE	8,5/8 " X 0.500 " X 42.000 FT	14	588.000 FT	11.583	

NO.	HEAT NO. (BATCH NO.)	HYDRO STATIC TEST	COL LAP S E	N · D · T	V D I I S M U E A N L S I &	F L A T T E N I N G	R · M · T (Gs)	B E N D I N G	D R I F T	CHEMICAL COMPOSITION(%)																		TENSILE TEST				IMPACT TEST(0 °C)								Drop Weight Tear Test	HARD NESS TEST	HEAT TREAT MENT				
		5 Sec.								R E S U L T	D E S I G	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	Nb	Ti	B	Pcm	CEQ	D I R	TENSILE STRENGTH	YIELD STRENGTH	Y.R %	E.L %	L O C	ENERGY (Joule)				SHEAR AREA (%)						()	HV	SN	
		psi										2	3	2	2	2	2	3	3	3	4	C1	10	2	3	AVE							1	2	3	AVE	1	2	AVE							*11
		*2										*3	*4	*5	*6	*12	*7	*8	psi	psi	*9	*10	1	2	3	AVE							1	2	3	AVE	1	2	AVE							

SPEC							30			MAX MIN	22	45	120	25	15	40	40	40	15	50	50	40	10	25			110200 66700	76900 52200	93 27			21	27					250						
1	V83497 (SAA6012030)	2970	G		G	G	G	G		H	6	14	97	12	2	2	1	3	0	2	36	1		12		T	81940	75420	92	37	B	278	314	323	305	100	100	100	100				207	G
2	V74611 (SAA6012040)	2970	G		G	G	G	G		H	6	17	106	11	1	1	1	3	0	2	32	1		12		T	79620	73090	92	38	B	280	307	308	298	100	100	100	100				199	G
3	V83663 (SAA6012050)	2970	G		G	G	G	G		H	6	16	100	14	2	2	2	4	0	3	35	1		12		T	80200	73960	92	36	B	308	281	277	289	100	100	100	100				203	G
4	V83501 (SAA6012060)	2970	G		G	G	G	G		H	6	16	102	13	2	2	1	3	0	2	36	1		12		T	82670	75560	91	38	B	273	285	296	285	100	100	100	100				210	G
										P	6	17	106	14	2	2	1	3	0	4	34	1		12		W	77010																	

NOTE

*1~*12: Refer To Others

OTHERS

*1-BBE:BLACK BEVELED END(30°~ 35°) *G:GOOD *R.M:Residual Magnetism(Gauss) *DIR:Direction *LOC:Location
*2-U:U:Weld Seam Ultrasonic Test *S-(Analysis)-H:Heat, P:Product
*6-0:Values below Significant Figure, 2:X1/100, 3:X1/1000, 4:X1/10000 *9-E.L:Elongation(GL-2")
*8-T:Base Transverse,W:Weld Transverse *10-B:Base*11-S.N:Seam Normalizing(Weld and H.A.Z)/Min. 871°C
*12-C1(X100):C+Si/30+Mn/20+Cu/20+Ni/60+Cr/20+Mo/15+V/10+5B

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Manager of Q.M Dept.

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COMMODITY : H.F.W STEEL PIPE

SPECIFICATION : API 5L X52M PSL2(46th)/ASTM A53B(2024)/ASME SA53B(2025)

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DATE OF ISSUE : 2026-06-23

L/C No. (P/O No.) : PO26100031(91-1255)

CUSTOMER : SIXGEN TRADING COMPANY LLC

SHIPPER : SEAH STEEL AMERICA,INC.

NO.	HEAT NO. (BATCH NO.)	TYPE	ORDER SIZE	QUANTITY			REMARK
		*1		PCS	TOTAL LENGTH	WEIGHT(FT/T)	
5	V83501 (SAA6021010)	BBE	8,5/8 " X 0.500 " X 42.000 FT	12	504.000 FT	9.929	* CONFIRM TO NACE MR 0175 & MR 0103 (CHEMICAL COMPOSITION, HEAT TREATMENT AND HARDNESS VALUE ONLY) * HARDNESS TEST RESULT ; Max. Value * TENSILE SPECIMEN : RECTANGULAR (1T180 & 1W-WIDTH 1½") * UT CALIBRATION REFERENCE : Φ 3.2MM DRILLED HOLE * IMPACT TEST SPECIMEN(3T90/2V) : Full Size * METALLOGRAPHIC TEST ; GOOD * JD FIELDS Steel Making :HYUNDAI STEEL (KOREA) Coil Rolling : HYUNDAI STEEL (KOREA)
6	V83663 (SAA6022020)	BBE	8,5/8 " X 0.500 " X 42.000 FT	5	210.000 FT	4.137	

NO.	HEAT NO (BATCH NO.)	HYDRO STATIC TEST	COL LAP PSE	N · D · T	V D I I S M U E A N L S I &	F L A T T E N I N G	R · M · T (Gs)	B E N D I N G	D I R I F T	CHEMICAL COMPOSITION(%)																		TENSILE TEST				IMPACT TEST(0 °C)								Drop Weight Tear Test			HARD NESS TEST	HEAT TREAT MENT																							
		5 Sec.								RES UL T	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	Nb	Ti	B	Pcm	CEQ	D I R	TENSILE STRENGTH	YIELD STRENGTH	Y.R %	E.L %	L O C	ENERGY (Joule)				SHEAR AREA (%)				()					HV																						
		psi																														2		3		2	2	2	2	3	3	3				4	C1																				
																																*2	*6																*12	*7	*8																
																																	*3	*4	*5																		psi	psi	%	%	*9	*10	1	2	3	AVE	1	2	3	AVE	1

SPEC							30			MAX MIN	22	45	120	25	15	40	40	40	15	50	50	40	10	25			110200 66700	76900 52200	93 27													250								
5	V83501 (SAA6021010)	2970	G		G	G	G	G			H	6	16	102	13	2	2	1	3	0	2	36	1	12		T	82670	75560	91	38	B	273	285	296	285	100	100	100	100					210	G					
6	V83663 (SAA6022020)	2970	G		G	G	G	G			H	6	16	100	14	2	2	2	4	0	3	35	1	12		W	77010																							
											P	6	17	106	14	2	2	1	3	0	4	34	1	2	12																									
											P	6	17	106	14	2	2	1	3	0	4	34	1	2	12																									
											P	7	16	101	16	2	2	2	3	0	4	37	1	2	13		T	80200	73960	92	36	B	308	281	277	289	100	100	100	100										
											P	7	15	100	16	2	2	2	3	0	4	35	1	2	13		W	82670																						
											-	B	L	A	N	K	-																																	

NOTE

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OTHERS

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