PAGE	: 1 / 3		
CERTIFICATE NO.	: PE202505-0066-000729(5031863)		
COMMODITY	: H.F.W STEEL PIPE		
SPECIFICATION	: API 5L X52M PSL2(46th)/ASTM A53B(2024)/ASME SA53B(2023)		

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	: 2025-04-29		
L/C No. (P/O No.)	: PO25100017(91-1209)		
CUSTOMER	: SIXGEN TRADING COMPANY LLC		
SHIPPER	: SEAH STEEL AMERICA,INC.		

NO.	HEAT NO. (BATCH NO.)	TYPE *1	ORDER SIZE	QUANTITY PCS	QUANTITY TOTAL LENGTH	QUANTITY WEIGHT(FT/T)
1	V40791 (SAZ4142040)	BBE	4,1/2 " X 0.237 " X 42.000 FT	363	15,246.000 FT	74.705
2	V38135 (SAZ4151020)	BBE	4,1/2 " X 0.237 " X 42.000 FT	537	22,554.000 FT	110.514
3	V40809 (SAZ4152070)	BBE	4,1/2 " X 0.337 " X 42.000 FT	245	10,290.000 FT	69.972
4	V38139 (SAZ4152080)	BBE	4,1/2 " X 0.337 " X 42.000 FT	27	1,134.000 FT	7.711

REMARK

* 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" or 3/4")
* UT/ET CALIBRATION REFERENCE : Φ 3.2MM DRILLED HOLE
* METALLOGRAPHIC TEST ; GOOD
* JD FIELDS

Steel Making :HYUNDAI STEEL (KOREA)
Coil Rolling : HYUNDAI STEEL (KOREA)

NO.	HEAT NO (BATCH NO.)	HYDRO STATIC TEST 5 Sec. psi	RESULT	COLLAPSE	N·D·T EU1 *2	DIMENSIONAL & ON	FLATTENING	R·M·T (Gs)	BENDING B *3	DRIFT *4	DESIG *5	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	Nb	Ti	B	Pcm	CEQ
												2			3		2	2	2	2	3	3	3	4	C1	
												*6													*12	*7
SPEC								30			MAX	22	45	120	25	15	40	40	40	15	50	50	40	10	25	
											MIN															
1	V40791	2970	G		G	G	G	G			H	6	1	76	11	4	1	1	2	0	1	17	1	1	10	
	(SAZ4142040)										P	6	1	79	11	5	1	1	2	0	3	15	1	1	10	
											P	6	1	79	12	5	1	1	2	0	3	16	1	1	10	
2	V38135	2970	G		G	G	G	G			H	7	1	75	13	6	1	1	2	0	1	16	1	1	11	
	(SAZ4151020)										P	7	1	75	13	7	1	1	2	0	3	16	0	1	11	
											P	7	1	75	13	7	1	1	2	0	2	13	1	1	11	
3	V40809	2970	G		G	G	G	G			H	6	1	71	12	5	1	1	2	0	1	16	0	1	10	
	(SAZ4152070)										P	6	1	72	13	6	1	1	2	0	2	15	0	1	10	
											P	5	1	72	13	6	1	1	2	0	2	16	0	1	9	
4	V38139	2970	G		G	G	G	G			H	6	1	76	15	6	1	1	2	0	1	15	0	1	10	
	(SAZ4152080)										P	6	1	78	17	7	2	1	2	0	3	14	0	1	10	
											P	6	1	78	17	7	1	1	2	0	3	14	0	1	10	

NO.	HEAT NO (BATCH NO.)	TENSILE TEST DIR *8	TENSILE STRENGTH psi	YIELD STRENGTH psi	Y.R %	E.L % *9	IMPACT TEST LOC *10	ENERGY (Joule) 1	2	3	AVE	SHEAR AREA (%) 1	2	3	AVE	Drop Weight Tear Test () 1	2	AVE	HARDNESS TEST HV	HEAT TREATMENT SN *11
SPEC			110200	76900	93														250	
			66700	52200																
1	V40791 (SAZ4142040)	L	68270	62010	91	32													178	G
2	V38135 (SAZ4151020)	L	72080	66020	92	27													181	G
		L	71350	64450	90	29														
3	V40809 (SAZ4152070)	L	73530	68030	93	28													175	G
4	V38139 (SAZ4152080)	L	70920	64710	91	30													178	G

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-EU1:ET or UT:Eddy Current Test or Ultrasonic Test *3-B:Bend 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-L:Base Longitudinal*11-S.N:Seam Normalizing(Weld and H.A.Z)/Min. 871℃
*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

SeAH

Manager of Q.M Dept.

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

CERTIFICATE NO. : PE202505-0066-000729(5031863)

COMMODITY : H.F.W STEEL PIPE

SPECIFICATION : API 5L X52M PSL2(46th)/ASTM A53B(2024)/ASME SA53B(2023)

DATE OF ISSUE : 2025-04-29

L/C No. (P/O No.) : PO25100017(91-1209)

CUSTOMER : SIXGEN TRADING COMPANY LLC

SHIPPER : SEAH STEEL AMERICA,INC.

NO.	HEAT NO. (BATCH NO.)	TYPE *1	ORDER SIZE	QUANTITY PCS	QUANTITY TOTAL LENGTH	QUANTITY WEIGHT(FT/T)
5	V38139 (SAZ4161010)	BBE	4,1/2 " X 0.337 " X 42.000 FT	287	12,054.000 FT	81.967
6	V33704 (SAZ4161020)	BBE	4,1/2 " X 0.337 " X 42.000 FT	204	8,568.000 FT	58.263
7	V33704 (SAZ4162010)	BBE	4,1/2 " X 0.337 " X 42.000 FT	26	1,092.000 FT	7.425
8	V38814 (SGZ4091060)	BBE	2,3/8 " X 0.218 " X 42.000 FT	95	3,990.000 FT	9.097

REMARK

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* TENSILE SPECIMEN : RECTANGULAR (1L90-WIDTH 1" or 3/4")
* UT/ET CALIBRATION REFERENCE : Φ 3.2MM DRILLED HOLE
* METALLOGRAPHIC TEST ; GOOD
* JD FIELDS

Steel Making :HYUNDAI STEEL (KOREA)
Coil Rolling : HYUNDAI STEEL (KOREA)

NO.	HEAT NO (BATCH NO.)	HYDRO STATIC TEST 5 Sec. psi	RESULT	COLLAPSE	N·D·T EU1 *2	DIMENSIONAL & ON	FLATTENING	R·M·T (Gs)	BENDING B *3	DRIFT *4	DESIG *5	C 2	Si 2	Mn 2	P 3	S 3	Cu 2	Ni 2	Cr 2	Mo 2	V 3	Nb 3	Ti 3	B 4	Pcm C1 *12	CEQ *7	DIR *8	TENSILE STRENGTH psi	YIELD STRENGTH psi	Y.R %	E.L % *9	LOC *10	ENERGY (Joule) 1	2	3	AVE	SHEAR AREA (%) 1	2	3	AVE	Drop Weight Tear Test () 1	2	AVE	HARDNESS TEST HV	HEAT TREATMENT SN *11
SPEC								30			MAX	22	45	120	25	15	40	40	40	15	50	50	40	10	25			110200	76900	93														250	
											MIN																	66700	52200																
5	V38139	2970	G		G	G	G	G			H	6	1	76	15	6	1	1	2	0	1	15	0	1	10																				
	(SAZ4161010)										P	6	1	78	16	6	2	1	2	0	3	14	1	1	10		L	75710	67790	90	29													178	G
											P	6	1	78	17	6	2	1	2	0	3	13	1	1	10																				
6	V33704	2970	G		G	G	G	G			H	5	0	75	19	5	1	2	3	0	2	14	1	1	9																				
	(SAZ4161020)										P	5	0	75	18	6	1	1	3	0	3	14	0	0	9		L	72370	65030	90	28													171	G
											P	5	0	75	18	6	1	1	3	0	3	15	0	1	9																				
7	V33704	2970	G		G	G	G	G			H	5	0	75	19	5	1	2	3	0	2	14	1	1	9																				
	(SAZ4162010)										P	5	0	75	18	6	1	1	3	0	3	14	0	0	9		L	72370	65030	90	28													171	G
											P	5	0	75	18	6	1	1	3	0	3	15	0	1	9																				
8	V38814	2970	G		G	G	G	G	G		H	6	1	77	11	4	1	2	2	0	1	16	1	2	10																				
	(SGZ4091060)										P	6	1	78	14	5	1	1	2	0	3	25	1	1	10		L	79040	72510	92	25													178	G
											P	6	1	78	14	5	1	1	2	0	3	25	1	1	10																				

NOTE: *1 ~ *12: Refer To Others

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*1-BBE:BLACK BEVELED END(30°~ 35°) *G:GOOD *R.M:Residual Magnetism(Gauss) *DIR:Direction *LOC:Location
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