

INSPECTION CERTIFICATE

CERTIFICATE NO. :BYZF2128

PAGE : 1/3 DATE :2019-01-16

CUSTOMER :SUMITOMO CORPORATION EUROPE LTD
ORDER NO. :18-69
SHIPPER :SUMITOMO CORPORATION 057 KEN 1199/4 9-845-N3-5-1-FKD3-01
COMMODITY :COUPLING WITH VAM 21
STANDARD :API 5CT GROUP2 GR.L80-TYPE 1 PSL 2(9TH ED., JUL. 2011)
SPECIFICATION :TSP-4343R1
MILL WORK NO. :BYZF2128 O.D.:7inch W.T.:29.00lb/ft QUANTITY:100pcs. MASS:1316kg
MATERIAL WORK NO. :WCFK7266

HEAT TREATMENT:QUENCHED & TEMPERED

CHEMICAL COMPOSITION(%)

		*1	C	Si	Mn	P	S	Cu	Cr	Ni	Mo	Al
						*2	*2					*2
SPEC. MIN.		R	-	-	-	-	-	-	-	-	-	-
MAX.		R	43	45	190	30	30	35	-	25	-	-
HEAT NO.												
J8L7799		L	25	29	81	10	3	2	113	2	32	46
		P	25	29	79	9	3	2	112	2	32	45
		P	25	29	80	9	2	2	112	2	32	46

*1 R:LADLE & PRODUCT ANALYSIS L:LADLE ANALYSIS P:PRODUCT ANALYSIS *2:X1000 OTHER:X100

TENSILE TEST

		*1	*2	YS	TS	EL
				*3	*3	%
SPEC. MIN.	HEAT-	L	B	P 80.0	P 95.0	15
MAX.	LOT NO.	L	B	P 95.0	P -	-
HEAT NO.						
J8L7799	001	L	B	P 88.9	P 109.1	27
	001	L	B	P 85.7	P 108.5	25

TYPE OF SPECIMEN:ROUND BAR 0.5in. DIAMETER *1 SAMPLING DIRECTION L:LONGITUDINAL
*2 SAMPLING POSITION B:BASE METAL *3 UNIT P:ksi GAUGE LENGTH:2.0in. KIND OF YS:0.5% EXTENSION UNDER LOAD

IMPACT TEST(+32.0° F 2mm V-Notch 10X10)

		*1	*2	*3	*4	AVG	*3	*4	AVG	
SPEC. MIN.	HEAT-	T	B	E	F	*5 11/16	16	S %	*6 75	-
MAX.	LOT NO.	T	B	E	F	-/-	-	S %	-	-
				[1]	[2]	[3]		[1]	[2]	[3]
HEAT NO.										
J8L7799	001	T	B	E	F	158	153	165	159	S % 100 100 100 100

[1] [2] [3]: SPECIMEN NO.
ABSORBED ENERGY *5:VALUE OF ONE PIECE/EACH VALUE OF TWO PIECES AVG:AVERAGE VALUE OF ONE SET(3 PIECES)
SHEAR AREA *6:VALUE OF ONE PIECE AVG:AVERAGE VALUE OF ONE SET(3 PIECES)
*1 SAMPLING DIRECTION T:TRANSVERSE *2 SAMPLING POSITION B:BASE METAL *3 E:ABSORBED ENERGY S:SHEAR AREA
*4 UNIT F:ft•lbf %:%

VISUAL & DIMENSIONS: ACCEPTABLE

WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN MADE IN ACCORDANCE WITH THE RULES OF THE CONTRACT.

Y. Itoh

YUJIN ITO

HEAD OF DEPARTMENT
QUALITY ASSURANCE DEPARTMENT

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NO.049789K19



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MAGNETIC PARTICLE EXAMINATION: ACCEPTABLE

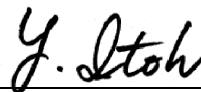
APPLICABLE STANDARD: API 5CT SEC.9

REFERENCE STANDARD: JIS Z 2320 TYPE A1 EXTERNAL & INTERNAL LONGITUDINAL & TRANSVERSE

I TIMS CONTRACT NO.

18-DSCT-12-117467

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HARDNESS TEST(HRC)

		*1 *2 *3	*4 *5													*V.A.	
SPEC. MIN. MAX.		B C	- -													-	
		B C	- 23.0													-	
HEAT NO.	HEAT- LOT NO.		AVG.	OUTER WALL				MID WALL				INNER WALL					
				QUAD	IMPRESSION NO.			IMPRESSION NO.			IMPRESSION NO.						
				-RANT	(1)	(2)	(3)	AVG.	(1)	(2)	(3)	AVG.	(1)	(2)	(3)	AVG.	
J8L7799	001	B C T	19.2	A	19.2	18.8	19.1	19.0	20.3	20.0	20.1	20.1	18.5	18.3	18.4	18.4	1.7
	001	B C B	19.4	A	19.3	19.4	18.9	19.2	20.6	20.4	20.3	20.4	18.6	18.9	18.6	18.7	1.7
		*ALL	19.3														
*1 SAMPLING POSITION B:BASE METAL *2 LOCATION C:CROSS SECTION *3 SAMPLING LOCATION T:TOP B:BOTTOM *4 EACH																	
*5 AVERAGE *V.A.:VARIATION AVERAGE MAX.-MIN. * ALL:ALL AVG.																	

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