Sy.No.632, Narayanadevarakere, H.B.Halli, Tq. Bellary District, 583 222



TEST CERTIFICATE

			123 - 391		Cliferation																												n le la la	70.00	1	DATE	
CUSTOMER NAME								PROCESS ROUTE							BLOOM SIZE (mm) 200x200			SUPPLY CONDITION								TC NO.					21.11.2024						
M/S SSB ENGINEERS PVT							MBF-EOF-LRF-VD-CCM(EMS-AMLC)-RMS						As Rolled										24110814			VEHICLE											
. CUSTOMER SPECIFICATION													REDUCTION RATIO			LENGTH (mm)				COLO				INVOICE NO.		QTY (M	T) BUN	INDLE		NO. RJ53GA0642							
DANA Specifications QF1001, Rev No.02, Dtd. 12.05.2020							HEAT NO. GRADE 50562 20MNCRS			SIZE (mm)		REDUCTION RETURN							COLOUR CODE					SE24Y-10424			3	RJ5	3GA0642								
L CHEMICAL COMPOSITION										5	50 DIA			20.37:1		5770+40				Yellow	Yellow + Brown			362													
	1		OSITION	N .								- de la							A STREET																	-	
%	C	Si		Mn	P	s	Cr	Mo	NI	Al	Cu	Ca	N2	H2	02	B	AIN2R			-	-		1.		1.	T.		T .	1.	-	-			-			
Min	0.1	50 0.150)	1.000		0.015	1.000		٦.	0.020			(ppm) 60.0	(ppm)	(ppm)	-	atio	-						1	1	-		-	-	-	-						
Max	0.2	00 0.40	,	1.300	0.020	0.030	1.300	0.100	0.300	-	0.300	0.0010		2.50	20.0	0.000		-					1.		١.	1	<u> </u>		-					-	-		-
Actual	0.1			1.240	0.011	0.020	1.240	0.005	0.013	0.027	0.021	0.0006		1.76	11.4	0.000	_							1.	1.	1.			-	-	-				-		
11.	PHYS	ICAL PROP	ERTIES																		III. Jo	MINY	HARD	NABIL	ITY (i	HRC)											
Tensile Properties (Quenched & Tempered) (ASTM A370)								Impact Test (Charpy)						Hardness									(Dista	(Distance Unit: mm) (Standa				STM A25	55)	1							
	YS (MPa)			U (M	TS (pa)	% EL		% RA			(Charpy V-N						As Rolled (BHN)				J1.5	J5	J10	J10 J15		J25	J30			Τ.	-	-		-	-	-	-
Min		930		1230			7				25					-				Min	41.0	38.0	32.0	29.0	27.0	25.5	24.5	-	+	+-	-	-		-	-	-	
Max		-		1570												-	240		*	Max	-		-	35.5	-	-	31.0		1.	١.	٠.				-	-	-
Actual	ictual 1051 1248 15.8 42.7						38			Actual	rual 172-176				Actual	45.5	42.5	38.2	32.8	27.1	8 26.7	24.5	١.	١.	-					-	-	-					
IV,	MET	ALLOGRAP	HY																v. ot	HER TE	STS		1		-	1		1									
				Inclus	sion Rating (A	STM E45 Met	hod A)					Inch (As pe	sion Rating r DIN 50602)		0.1		Total	Decarb											100	0% Bars	Checked	i by Manua	l UT - Fo	ound OK	-		
	A			В		С		D		DS					Grain	Size	(mi		m) Macrostructure		e Step Down		wn	Upset			100% Bars Checked by MPI - Found OK & Material is free from surface defects										
	T	н		т	н	т	н	Т	н	.,,	s	s 0	5+0		(ASTM	(E112) ASTM		E-1077 (ASTM E-38		-381)	31) (15 407		5) -		100% Bar					rs checked for Mix-Up by PMI & Spark - Found OK							
Spec	2.0	1.5		2.0	1.0	0.5	0.5	1.0	1.0				5-	5-8 0.60		Max C2,R3,S3 Ma		Max	х -					Material is free from Radioactive contamination													
Actual	1.5	0.5		0.5 0		0 0		1 0			-						0.	22	Better Than CZR		252 OK											-					
VL	REMA	RKS:	-																	i de la composição de l																	
Dim	ension	tolerence: as	per IS 373	9 Grade -	1																					and the same of th			-	-							
Micr	estruct	ture: Uniform	Ferrite + i	Pearlite																																-	-
Band	ling is C	Ok As per UNI	8449								-	1	-																		-			-	-		
The r	nateria	I is comply w	th ROHS ((Pb,Cd,Hg,	Cr+6) permissit	ble limits.					The same of the sa	1	-	1												and the same of	-						-		-	_	
Mate	rial is c	conforming to	the custo	omer speci	ification.			4130500	m 10		100		-	-		-			_						-		-	Marie State .						-		-	and the last of th
taspe	ction C	ertificate as p	er EN102	04:2004, tr	ype 3.1					10	16	Arre	,	1		-		-						-				-						-	-	-	-
										10	10	1	1104	-			-			-	-				-	and the second second	-			-					-	-	- Marine State
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