SUR Metaliks Limited

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



## TEST CERTIFICATE

		ζ	Ranjan Das Ranthorised Signatory	Authori						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			By By	Mruthyunjaya Reviewed & Issued By	Mr. Reviewe	8							]	Diwakar H Prepared By	Diw Prep	La				
					1 2			A. C.								-	ė					-	-	-						
							711	135	197	b																				П
						and the	10	9	17	\$	4 5											1								
							5	1		)	5												3.1	04, type	0204:20	per EN1	5. Inspection Certificate as per EN10204:2004, type 3.1	ction Ce	5. Inspe	
							A. S. C.	EF	ENGINE	AC.	-												ion.	pecificat	stomer s	o the cu	4. Material is conforming to the customer specification.	rial is co	4. Mate	
									Parameter S	No.		Ar'									Ŗ	sible lim	permis	Hg,Cr+6	S (Pb,Cd,	vith ROH	<ol> <li>The material is comply with ROHS (Pb,Cd,Hg,Cr+6) permissible limits.</li> </ol>	naterial	3. The n	
										. 7	7		•										age 1	3739 GI	Pearlite	e: as p	Dimension tolerence: as per IS 3739 Grade     Microstructure: Uniform Ferrite + Pearlite	ension	1. Dim	T
				ing the						188													100					VI. REMARKS:	7. REA	
								-	1.	1	Ş	-	252	Better Than C2R2S2	be	7.7	1					1	-	1.0	0	0	2.0	0.5	15	Actual
			Material is free from Radioactive contamination	tive cont	Radioac	ee from	rial is fr	Mate					-	C2,S2,R2 Max	$\top$	0.6%of dia Max		+				1.	+-	+-	-	1.0 0.5	2.0	15	2.0	Spec
		ound OK	100% Bars checked for Mix-Up by PMI & Spark - Found OK	p by PMI	r Mix-U	necked fo	Bars ch	100%	•		075)	(IS 4075)		(ASTM E-381)		SAE J419	(2112)	(AST	S+0	0	S		Ξ	T	H	T H	Т	H	Ŧ	
efects	100% Bars Checked by MPI - Found OK & Material Is free from surface defects	I is free fi	K & Materia	Found Ok	MPI - I	necked by	Bars Ch	100%		380			-		+			-		┥.	1	DS	٥	+	-	-	В	^		
				ound OK	/ UT - Fo	100% Bars Checked by UT - Found OK	Bars Ch	100%	UPSET	5	NWOC	STEP DOWN	URE	MACROSTRUCTURE	MACI	TOTAL DECARB (%)	GRAIN	S G	90602)	(As per DIN 50602)	(Y)			245-13)	(ASTM I	ATING	INCLUSION RATING (ASTM E45-13)	INC		
					-						1501		TESTS	V. OTHER TESTS	5.5					1000							RAPHY	IV. METALLOGRAPHY	. MET	
	•	•	7 38.8	1 39.7	44.1	5 48.3	\$ 50.5	51.3	52.6	54.0	.5 55.1	57.4 56.5	Actual 5	A		21	215-221	Actual						-	20.4	-	1054	0	970	Actual
		•	0 46.0	0 48.0	-	0 53.0	\$4.0	54.0	55.0	56.0	.0 57.0	58.0 58.0	Max 5	7			240	Max		٠						-	1080	Ĺ		Max
			5 36.0	5 37.5	39.5	0 42.5	44.0	45.5	47.5	50.0	.0 51.0	52.5 52.0	Min 5					Min		•					n	-	820	Či.	8	Min
· -	-	•	J30	J25	<b>J</b> 20	315	JI3	11	J9	<b>J</b> 7	3 35	נג צונ	_			- 1	As Rolled (BHN)						%RA or %Z	%RA	13%		(Mpa)	) (e	(MPa)	
				ת (ה	Jait: ma	(Distance Unit: mm )	6								S	HARDNESS				IMPACT TEST (Charpy)	IMPA			EJ)	RTIES (ASTM	PROPI	TENSILE PROPERTIES (Quenched & Tempered) (ASTM E8)			The second second
								HRC)	m) YT	NABILI	HARDE	JOMINY HARDENABILITY (in HRC)	III. J													Š	PHYSICAL PROPERTIES	CAL PI	PHYS	11.
		<u>.</u>		-		14.7	72.0	1.44	4.0	0.001	01 0.005	0.00	0.0010 0.0001 0.0001 0.0050 0.001	0.0001	1000.0 0100.0	0.0005 0.001	0.0004 0.0009 0	-	0.017	0.007 0.0041	0.023 0	0.029	0.017	0.010	\$ 1275	0.025	1.060 0.012	0.235	0.372	Actual
	<u>.</u>					0 20.0	120.0	2.50								0.0010 -		0.0005	0.300	+	-	0.050	0.300	0.100	1.300	0.030	-	-		Max
	_	•	•	-		) (ppm)	60.0 (mdd) (	10	atio 2.1	. 2	-	-	+	-	. 5	. (2)	. 8	. (e. bd	. 2	- 14(%)	Alsor	0.020		-	1.000	0.015	0.800 .	021.0	0.330	Mia
-		•				92	NZ	H2	AIN2R	-	7	ž	W Ad	3	2					_		-	X.	M <sub>o</sub>	ರ	S	Ma P	Si	C	×
													=									1				NO.	CHEMICAL COMPOSITION	CYT CC	CHEMI	-
RJ02GC3595	17	34.19	SE24Y-10518	SE24)			ORANGE	ORJ			2	5910+40MM	591		10.39:1		70 DIA	5	35CRMN5		51986	-	QF 1001	d: DANA	1 (Ref St 124)	03, Date 14.06.2024)	TDS No. 01, Rev No. 01, Nev date 07.03.2021 (Ref Std: DANA QF 1001, Rev 03, Date 14.06.2024)	No. 01,	01, 824	TDS No.
VEHICLE NO.	BUNDLE	MT) B	INVOICE O	NA.		DE	JR CO	COLOUR CODE	- 1		3	LENGTH (mm)	LEN	RATIO	REDUCTION RATIO		SIZE (mm)		GRADE	Ö.	HEAT NO.				CATIO	SPECIFI	CUSTOMER SPECIFICATION	3		
22-Nov-2024		24110908	2413						As Rolled	AS R				-	200x200		LC-RMS	EMS-AM	VD-CCM-	MBF-EOF-LRF-VD-COM-EMS-AMLC-RMS	MBF	1		,0	LTINA	NEERS	M/3 338 ENGINEERS PVT.LTD.	M/S		
DATE		TC NO.	10			1		NOL	SUPPLY CONDITION	PALY C	IS	æ.		ZE	BLOOM SIZE	BI		OUTE	PROCESS ROUTE	PRC		_			The	77	0000			21
		755	1		3 8 11 8																				-	CISTOMER NAME	COSTON			