

R. L. STEELS & ENERGY LTD.

TEST CERTIFICATE

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Customer: M/S SADHU FORGING LTD.

UNIT-2,PLOT NO-84,SECTOR-25, FARIDABAD-121001

NO.	ion & Mate	T	115											
	Date		o No	Date	T -		No. of PCS	Quantity in	_					200
1272	TC NO. Date		Invoice No.		Tru	Truck No.		MT	Length	Supply Condit		tion	Colour code	
18-0372 03-05-201		RL18-SI-0382		03-05-2018	RJ 25	RJ 25 GA 3643		37.790	5.0 TO 6.0 MTR	AS ROLLE		YELLOW+ BLUE+WHITE		
Process Route		Heat No.		Grade		As Cast Size		Product Size		Reduction Ratio		Customer TDC		
EAF/LRF/VD/CCP-with MEMS		2-XQP-4		EN353		240X280		75RCS		11.94:1		As per TATA MOTORS SS-40		
I Compo	sition & Tr	amp Eler	nents			121								
%C	%Si	%Mn	%P	%S	%Cr	%Мо	%Ni	%Cu	%V	%AI	%Ti	%В	%Ca	%As
0.14	-	0.50		0.020	0.75	0.080	1.00	-	-	0.020	-	-	-	-
0.20	0.35	1.00	0.035	0.040	1.25	0.15	1.50	-	0.030	0.040		0.0004	-	-
0.190	0.21	1.00	0.025	0.027	1.10	0.110	1.00	-	0.007	0.025	-	0.0003	-	-
lements	(Contd.) &	DI / CE				Gas Analysis.				Dimension		n Tolera	Tolerance	
%Sn	%Pb	%Sb	CE	DI Value		2		O2	H2	N2	Size T	ol. (MM)		-
-	-	-	-	-		PPM)	Min			70.00	ø.			
-	-	-	× -		-	Gas (Max	20.00	2.00	100.00	Specif	fication	As per IS 3739, Grade I.	
0.005	-	-	-	-			Actual	10.00	1.10	76.00				
cal Prop	erties									Macrost	ructure	Mic	rostruc	ture
Hardness As Rolled	Hardness (H&T	YS (N	/lpa)	UTS (Mpa)		%EI.	%RA	Impact Values (Joules)		Macrostructure As per ASTME-381		-		
(BHN)	(BHN)							Izod	Charpy					
240 Max.	-	-				-	-	-	-	Better Tha	Better Than C2R2S2 -		-	
206-217	-	-		-		-	-	-	-	C2R2S2		-		
gical Pro	perties					1 12 17				Other 1	est Res	ults		
Test Code		Grain Size as per ASTM	Inclusion	Inclusion Rating (As per IS 4163/			ASTME-45A) Plate IR		Magnaflux Test (100%		Spark/Sp ectral Test	- Step Dow		wn Test
		E112	Series	Α	В	С	D	Ба	Barsy		(100% Bars)			
Spec		5.0 / 8.0	T/H	2.0 / 1.0	2.0 / 0.0	2.0 / 0.0	2.0 / 0.0	0.0		-	-	-	-	
Actual Value		6.0 / 7.0	T/H	1.5 / 0.5	0.5 / 0.0	0.5 / 0.0	1.5 / 0.0	ОК		ок	ок		ОК	
oility Tes	t Result													
J 1.5	J 5.0	J 10.0	J 30.0											
-	-	39-43	-											
44.00	42.00	39.00	30.50										TO BERTAIN	
	I Compo %C 0.14 0.20 0.190 Iements %Sn - 0.005 Cal Propo Hardness As Rolled (BHN) 240 Max. 206-217 Jical Pro Code ec. Value Dility Tes 44.00	Composition & Translation	Composition & Tramp Eler %C	Composition & Tramp Elements	Composition & Tramp Elements	Composition & Tramp Elements %C	Composition & Tramp Elements	Composition & Tramp Elements	Composition & Tramp Elements		Composition & Tramp Elements			

DECLARATION: TEST RESULTS ARE BASED ON ACTUAL TESTS CARRIED OUT ON SAMPLES DRAWN AS PER QUALITY ASSURANCE PLAN. TEST CERTIFICATE CONFORMS TO THE CUSTOMER TDC.

(AUTHORISED SIGNATORY)