heat treatment

							RAW	MATE	RIAL L	AB TE	ST RE	PORT									
MILL TC	ADHU	DHUNIK				RAW MATERIAL L. HEAT NO:								REPORT NO:			1802047				
SUPPLIER N					-																
FORGER TO SUPPLIER N	F-Forg	F-Forge India				MATERIAL GRADE:								DATE:			2018-02-13				
CONDITION: as r			s rolled				LENGTH				-				WEIGHT:			0			
BLOOM SIZE: 200			*				SECTION SIZE MM/RCS:								SECTION SIZE DIA:						
RE. RATIO AS 7.1			.1				RE. RATIO AS PER CALCULATOR:				7.11111111111111										
PER MILL TO	<i>)</i> :					CALC			1ICAL (COMP	OSTIC)NI									
PARAN	/FTFF	2	C%	Mn%	S%	P%	Si%	Ni%		Mo%		AI%	В%	Cu%	Ca%	Sn%	1				
MIN SPEC			0.17	1.10				-	1.00	-	-	-	-	-	-	-					
MAX SPEC			0.22		0.035	0.035	0.40	_	1.30	-	_	_	-	-	-	-					
MILL TC VALUE			0.185	_	0.031	_	0.25	0	1.02	0	0	0	0	0	0	0					
			0.185		0.025		0.27	0	1.06	0	0	0	0	0	0	0					
TONGER TO VALUE			0.100	1.10	4	0.020	0.27	0	1.00	0											
THIRD PARTY VALUE			0.20	1.25	0.034	0.027	0.24	0	1.05	0	0	0	0	0	0	0					
						JO	MINY I	HARDI	ENABI												
DISTANCE (in inches)	J1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16	13/16	14/16	15/16	16/16	18/16	18/16	19/16	20/16	
DISTANCE (in mm)	1.59	3.175	4.77	6.35	7.94	9.525		12.7	14.29		17.47	19.05	20.64		23.82	25.4	26.99	28.58	30.17	31.75	
MIN SPEC	41	39	36	33	30	28	25 26	25	23	5 21				5							
MAX SPEC	49	49	48	46	43	42	41	39	37	35											
MILL TC				37																	
VALUE				•																	
FORGER				37																	
TC VALUE																					
VECV				36																	
VALUE																					
CALCULAT ED VALUE	43.3	42.6	39.8	36.4	34.4	32.1	30.2	28.5	27.1	25.8	24.8	23.9	23.1	22.4	21.8	21.3	20.9	20.6	20.4	20.2	
	ETALL	OGRA	APHIC CHAR		ACTE	CTERSITICS		l					GAS CONTENT(ENT(I	PPM)					
IN	CLUS	SION RATING IS:4163				GRAIN SIZE IS:4							REQ			ACT					
			ACT				ACT				O2			20			17				
	Tn			Tk							N2				100			77			
Α	1.5			0			7				H2					2 1.3					
В	0.5			0																	
С	0			0		\dashv															
D		1.0			0								<u> </u>								
PART NO. OBSERVATION 17mm = 36 (MA		L GRA									IARK				
8534 811			J7mm = 36-40 J7 MM-38 - 42				20MnCr5				ACCEPTED				ok				TD and		
011				J7 IVIIVI-36 - 42				20MnCr5				REJECTED				Adhunik steel not approve for ETB and ZF part				i b anu	
814 J7			J7 MM-	7 MM-38 - 42			20M	nCr5		REJECTED				Adhunik steel not approve for ETB and							
817			J7 MM-36 - 40				20MnCr5				REJECTED				ZF part Adhunik steel not approve for ETB and						
818			J7 MM-40~45				20MnCr5				REJECTED				ZF part Adhunik steel not approve for ETB and						
															ZF part						
819			J7 MM-36 - 40				20MnCr5				REJECTED				Adhunik steel not approve for ETB ZF part				B and		
820			J7 MM-36 - 40						nCr5	REJECTED					Adh	unik st	eel not	appr			
6115			J9mm - 35~39				20MnCr5				REJECTED										
7454			J7 mm - 35 ~ 40				20MnCr5 20MnCr5				REJECTED										
5614			J7mm - 38~42 J7mm - 36 - 40								REJECTED										
5617			J	7mm -	36 - 4	υ	20MnCr5				REJECTED				<u> </u>						



CHECKED BY: Anshul Sharma | VERIFIED BY: | Vishw deepak Tripathi | APPROVED BY: | Ravindra kale