

RAW MATERIAL LAB TEST REPORT																					
MILL TC SUPPLIER NAME:	JAYASWAL NECO				HEAT NO:	59096				REPORT NO:	1806076										
FORGER TC SUPPLIER NAME:	DH-DHAR AUTO				MATERIAL GRADE:	SAE8620H				DATE:	2018-06-22										
CONDITION:	as rolled				STEEL CODE	DH39S				WEIGHT:	14.100										
BLOOM SIZE:	180 , 180				SECTION SIZE MM/RCS:	65				SECTION SIZE DIA:											
RE. RATIO AS PER MILL TC:	7.7				RE. RATIO AS PER CALCULATOR:	7.668639053254438															
% CHEMICAL COMPOSTION																					
PARAMETER	C%	Mn%	S%	P%	Si%	Ni%	Cr%	Mo%	V%	Al%	B%	Cu%	Ca%	Sn%							
MIN SPEC	0.17	0.60	-	-	0.15	0.35	0.35	0.15	-	-	-	--	-	-							
MAX SPEC	0.23	0.95	0.03	0.04	0.35	0.75	0.65	0.25	-	-	-	0.30	0.002	-							
MILL TC VALUE	0.20	0.88	0.025	0.018	0.20	0.419	0.56	0.169	0.005	0.027	0.0004	0.01	0.0019	0							
FORGER TC VALUE	0.19	0.90	0.021	0.022	0.241	0.43	0.580	0.17	0	0.021	0	0	0	0							
THIRD PARTY VALUE	0.19	0.88	0.029	0.014	0.24	0.43	0.58	0.18	0	0	0	0	0	0							
JOMINY HARDENABILITY BAND (IS : 3848)																					
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	11.1125	12.7	14.29	15.875	17.47	19.05	20.64	22.225	23.82	25.4	26.99	28.58	30.17	31.75	
MIN SPEC	41	37	32	27	23	21															
MAX SPEC	48	47	44	41	37	34															
MILL TC VALUE			39.5	33	31	28.5															
FORGER TC VALUE				34																	
VECV VALUE	44	42.5	39	34.5	31.8	29	27	26	25	23.5	22.1	21	20								
CALCULATED VALUE	44.2	43.2	39.3	34.4	32.1	29.8	27.8	26.2	24.7	23.5	22.4	21.5	20.7	20.1	19.5	19	18.6	18.3	18	17.8	
METALLOGRAPHIC CHARACTERISTICS										GAS CONTENT (PPM)											
INCLUSION RATING IS:4163						GRAIN SIZE IS:4748				GAS		REQ		ACT							
ACT						ACT				O2		20		16.5							
Tn Tk						7.5				N2		100		80							
A 1.5 0										H2		2		1.5							
B 0.5 0																					
C 0 0																					
D 1.5 0																					
PART NO.		OBSERVATION		MATERIAL GRADE		ACCEPTED/REJECTED		REMARK													
10119				SAE8620H		ACCEPTED															
CHECKED BY:	Gyaneshwar mishra			VERIFIED BY:	V.D.Tripathi			APPROVED BY:			Ravindra kale										