

ROYAL ENFIELD										Format No:- AP04:460:10R										
METALLURGICAL TEST REPORT																				
Report No : OT1912047																				
Part No/Part ID: 2420 / 570548				Part Name: SPARG CLUTCH GEAR				Date: 2019-12-09												
Qty: 05				Customer: RE				Batch Code: E2M19189												
1) Raw Material: SAE8620																				
2) Heat Treatment:-Case carburised, hardened & tempered																				
HARDNESS TRAVERSE GRAPH										2.1 Hardness										
										Location		Specification				Observation				
										FACE		60-64 HRC				60-61				
										0.2 MM AT BORE		700 HV MIN. HV				750				
										RCD		32~45 HRC				41				
										2.2 Effective Case Depth @ 550HV1										
										Location		Specification (mm)				Observation (mm)				
										PCD		0.80~1.20				0.97				
										UNGROUND BORE (Big ID)		-				0.85				
										Thread Hardness										
										NR						-				
2.3 Hardness traverse in Hv (Distance from surface)																				
in mm	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
PCD	795	767							561	546	516									
RCD																				
B/G ID	758	750					560	545	490											
2.4 Microstructure:																				
Location										Specification					Observation					
CASE										F.T.M.+R.A.<2%					T.M+R.A.2%					
CORE										LCM+BAINITE					L.C.M+Bainite					
GBO-										<					-					
Disposition :-																				
Remarks :-																				
Checked by :- Dharmendra Rathore				Prepared by :- Sumeet Sharma				Approved by :- Ravindra kale												