

ROYAL ENFIELD															Format No:- AP04:460:10R														
MATERIAL LABORATORY REPORT																													
Report No : IF11804001																													
Part No/Part ID:					2414 / 570202					Part Name					ASLY.LAYSHAFT,1st Gear					Date:					2018-04-01				
Qty					900					Customer:					REML					Batch Code					E2C18892				
1) Raw Material: 16MnCr5																													
2) Heat Treatment:-Case carburised, hardened & tempered																													
															2.1 Hardness														
															Location					Specification					Observation				
															SURFACE					58~62 HRC					58/59				
															NR					HRC					-				
															RCD					30~42 HRC					33				
															2.2 Effective Case Depth @ 513HV1														
															Location					Specification (mm)					Observation (mm)				
															PCD					0.50~0.80					0.69				
																									-				
NR										-																			
Thread Hardness																													
NR										-																			
2.3 Hardness traverse report																													
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	710	695				544	512	471																					
RCD																													
2.4 Microstructure:																													
Location										Specification										Observation									
CASE										T.M.+R.A.<10%										T.M+R.A.5-10%									
CORE										L.C.M.+Bainite										L.C.M+Bainite									
Disposition :- ACCEPTED																													
Remarks :- OK																													
Checked by :-					Anshul Sharma					Verified by :-					Aditya mishra					Approved by :-					Ravindra kale				