

																			Format No:- AP04:460:10R											
MATERIAL LABORATORY REPORT																														
Report No : U2F81903002																														
Part No/Part ID:					2463 / 575422/C					Part Name					GEAR 2ND DRIVE					Date:					2019-03-01					
Qty					866					Customer:					RE					Batch Code					E2B19916					
1) Raw Material: SAE8620H																														
2) Heat Treatment:-Case carburised, hardened & tempered																														
															2.1 Hardness															
															Location					Specification					Observation					
															SURFACE					80-84 HRA					82/83					
																				HRC					-					
															Core AT RCD					330-480 HV					390,403					
															2.2 Effective Case Depth @ 513HV1															
															Location					Specification (mm)					Observation (mm)					
															PCD					0.60-0.90					0.89					
																									-					
										-																				
Thread Hardness																				-										
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	765	725						535	510																					
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										
GBO-										<20										13										
Disposition :- ACCEPTED																														
Remarks :- OK																														
Checked by :-					Vitthal Done					Verified by :-					Aditya Mishra					Approved by :-					Ravindra kale					