


heat treatment

															Format No:- AP04:460:10E														
MATERIAL LABORATORY REPORT																													
Report No:- U1F520171127124																													
Part No/Part ID: 5620 / ID313957					Part Name: GEAR REVERST MAIN SHAFT					Date: 2017-11-27																			
Qty: 15					Customer: ETB					Batch Code: D17L26																			
1) Raw Material : EN-353																													
2) Heat Treatment: Case carburised, hardened & tempered																													
															2.1 Hardness														
															Location					Specification					Observation				
															LOCATION					58-62 HRC					59-60				
															PCD					45 MAX HRC					44				
															RCD					35-42 HRC					42				
															2.2 Effective Case Depth at														
															Location					Specification (mm)					Observation (mm)				
															AT PCD					0.8-1.20					1.09				
															AT RCD					0.70					0.95				
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	735	714	694	680	670	654	631	614	600	590	545																		
RCD	725	709	670	665	640	625	605	580	560	540																			
2.4 Microstructure:																													
Location										Specification										Observation									
CASE										TM+RA 5%										TM+RA 5%									
CORE										LCM+BAINITE										LCM+BAINITE									
IGO-																													
Disposition:- ACCEPTED																													
Remarks :- OK																													
Checked by :- Chandrpal singh ranawat					Verified by :- Vishw deepak Tripathi					Approved by :- Ravindra kale																			