Hino trouble Shooting Steps

ENGINE STARTING DIFFICULTY ...Engine Does Not CrankStarter does not operateDischarged batteryBattery relay switch disconnectedDisconnected, loose or corroded battery terminalsPoor groundStarting switch defectiveMagnetic switch defectiveStarting relay defectiveStarter operatesPiston seizureBearing seizureForeign matter in cylinderExcess mechanical resistance in engine, due to poor lubricationInjection pump plunger seized ...Engine CranksFuel not reaching injection pumpFuel level too lowClogged fuel linesAir in fuel linesFeed pump defectiveClogged fuel filterFuel reaching injection pumpHigh pressure injection line connection looseDelivery valve stickingInjector faultyInjection nozzle faultyClogged injection nozzleFuel injection timing improperHeater plug defectiveAir cleaner cloggedLow compressionWater in fuel **ENGINE STALLS AT LOW SPEED**Injection pump defectiveGovernor out of adjustmentRack and pinion malfunctioningHigh pressure injection pipe cloggedInjector defectiveNozzle spring adjusting screw looseNozzle port cloggedInjection pressure too lowNozzle spray incorrectDelivery valve defective

ENGINE LACKS POWER

.....Insufficient fuel supply

Clogged fuel line or air in systemFeed pump defectiveClogged fuel filterInjection insufficientNozzle spray incorrectImproper injection timingInsufficient air intakeClogged air cleanerIntake valve tappet improperly adjustedOthersLow compressionEngine overheating
ENGINE OVERHEATINGCooling system defective
ENGINE KNOCKSSerious diesel knockingImproper fuel injection timingUneven injection by injection pumpOil leaking into combustion chamberFuel cetane value too lowMechanical knockingExcessive worn cylinder and pistonExcessively worn piston and bushingWorn crankshaft and connecting rod bearingForeign matters in cylinder

Improper valve clearance
IMPROPER COLOR OF EXHAUST GASExcessive white smokeDelayed fuel injection timingWater in fuelOil leaking into combustion chamberInsufficient combustion due to coldExcessive black smokeAdvance fuel injection timingFuel injection volume excessiveNozzle spray incorrectCompression pressure insufficient
EXCESSIVE FUEL CONSUMPTIONPoor fuel qualityFuel leakageOperation inadequateEngine over-coolingClogged air cleaner and fuel filterInjection pump defectiveImproper injection timingInjection nozzle defectiveImproper engine compressionImproper valve timingSeizure or excessive friction in moving engine parts
EXCESSIVE ENGINE OIL CONSUMPTIONImproper oilOil level too highOmission of oil changingOmission of engine warm-upEngine overheatingWorn cylinders, pistons and ringsWorn cylinders, pistons and ringsSucking oil through valve guide
TURBOCHARGER RELATEDBlack SmokeTurbocharger does not rotate smoothlyBearing seizedContact and/or damage of turbine wheel or impeller bladesExhaust systemExhaust gas leak before turbochargerClogged or blocked exhaust pipingWhite smokeClogging or deformation of oil return pipe, resulting in oil leak to compressor or turbine sideDamaged or worn seal rings due to excessive wear of bearingLow outputGas leakage from exhaust system

Air leakage from compressor sideDirty or damaged turbochargerPoor response of turbocharger Carbon build up on the seal rings of turbine side, resulting in binding of rotation
Abnormal noise and vibration
Noise
Contact of rotating parts
Vibration
Loose connection between turbo and intake/exhaust pipingDamaged bearing, contact of rotating parts, foreign material
SEA WATER PUMP RELATED
Water discharge is not sufficient
Sucking air
Clogging of suction pipe and/or strainer
Damaged impeller
Abnormal noise or vibration
Worn bearing
Foreign material in the casing
Incomplete mounting
Bearing wears frequently
too tight belt tension
Damage of impeller
When it has been operated for a long period
When it has been operated without water
When it has been operated at higher RPM
Too high or low water temperature
When it has not been operated for an extended period
Foreign material in the pump