100,000 Mile Preventive Maintenance Checklist – Heavy-Duty Trucks

Name: ..... Designation: .....

Vehicle No.: ..... Date: .....

Sr. No.	Inspection Item	Status	Remark
1	Lifecycle Assessment Planning:This 100,000-mile service provides critical data for fleet lifecycle decisions. Plan extensive downtime for comprehensive inspections and potential major component overhauls.	[ ] OK [ ] Pass [ ] Fail [ ] NA	.....
2	Specialized Tooling Required:Heavy-duty 100K mile service requires specialized diagnostic equipment, lifting capacity, and certified technicians trained on commercial vehicle systems and DOT regulations.	[ ] OK [ ] Pass [ ] Fail [ ] NA	.....
3	Component Overhaul Evaluation:Use this interval to assess engine, transmission, and differential conditions for potential overhaul versus replacement decisions based on remaining useful life projections.	[ ] OK [ ] Pass [ ] Fail [ ] NA	.....
4	Regulatory Compliance Focus:Ensure all inspections meet current DOT, EPA, and state requirements for heavy-duty commercial vehicles, including emissions testing and safety certification updates.	[ ] OK [ ] Pass [ ] Fail [ ] NA	.....
5	Complete engine compression test all cylinders	[ ] OK [ ] Pass [ ] Fail [ ] NA	.....
6	Cylinder leakdown test and analysis	[ ] OK [ ] Pass [ ] Fail [ ] NA	.....
7	Detailed oil analysis and wear metal evaluation	[ ] OK [ ] Pass [ ] Fail [ ] NA	.....
8	Injector performance testing and calibration	[ ] OK [ ] Pass [ ] Fail [ ] NA	.....
9	Turbocharger inspection and performance test	[ ] OK [ ] Pass [ ] Fail [ ] NA	.....

Sr. No.	Inspection Item	Status	Remark
10	Valve train inspection and adjustment	[ ] OK [ ] Pass [ ] Fail [ ] NA	.....
11	Engine timing verification and adjustment	[ ] OK [ ] Pass [ ] Fail [ ] NA	.....
12	Cooling system pressure test and flow analysis	[ ] OK [ ] Pass [ ] Fail [ ] NA	.....
13	Engine mount and vibration dampener inspection	[ ] OK [ ] Pass [ ] Fail [ ] NA	.....
14	Assess engine block and head condition	[ ] OK [ ] Pass [ ] Fail [ ] NA	.....
15	Complete transmission teardown inspection	[ ] OK [ ] Pass [ ] Fail [ ] NA	.....
16	Clutch system comprehensive overhaul	[ ] OK [ ] Pass [ ] Fail [ ] NA	.....
17	Differential teardown and rebuild assessment	[ ] OK [ ] Pass [ ] Fail [ ] NA	.....
18	Drive shaft complete inspection and balancing	[ ] OK [ ] Pass [ ] Fail [ ] NA	.....
19	Universal joint replacement and lubrication	[ ] OK [ ] Pass [ ] Fail [ ] NA	.....
20	Transmission cooler and lines complete service	[ ] OK [ ] Pass [ ] Fail [ ] NA	.....

Inspector Signature: _____ Barcode: _____