

S13 Integrated Specifications & Key Benefits



S13 ENGINE TECHNICAL SPECIFICATIONS

ENGINE TYPE	Diesel, 4-Cycle
CONFIGURATION	Inline 6-Cylinder
DISPLACEMENT	12.7L (777 cu. in.)
BORE & STROKE	5.12 in. & 6.30 in. (130 mm & 160 mm)
COMPRESSION RATIO	23:1
ASPIRATION	Fixed Geometry Turbocharger
COMBUSTION SYSTEM	1800 bar Common Rail
ENGINE LUBRICATION	47.5 Quarts (45 L)
TOTAL ENGINE WEIGHT	(Dry) 2284 lbs. (1036 kg)
VALVES	4 Valves Per Cylinder, Dual Overhead Camshaft
B10 DESIGN LIFE	1,200,000 mi (1,931,000 km)

INDUSTRY LEADING ENGINE WARRANTY

BASE ENGINE	2 years, unlimited miles, unlimited hours
BASE MAJOR COMPONENTS	5 years, 500,000 miles
BASE TOWING*	2 years, unlimited miles, unlimited hours
OPTIONAL ENGINE	Up to 6 years, 600,000 miles
OPTIONAL MAJOR COMPONENT	Up to 7 years, 700,000 miles

*Towing for vehicles with engine failures

T14 TRANSMISSION KEY BENEFITS

Deep low-end gearing and shifting smoothness, delivering efficiencies of a direct drive in an overdrive package
14 speed with 2 crawler gears
A lightweight, efficiently packaged and robustly designed gearbox with unlimited GCW
Single counter shaft transmission designed for simplicity and reliability

LT[®] SERIES AND RH[™] SERIES

Gear	Ratio	% Step
R2	12.60	
R1	16.23	
1	20.81	29%
2	16.16	29%
3	12.57	29%
4	9.76	29%
5	7.56	29%
6	5.87	29%
7	4.55	29%
8	3.53	28%
9	2.77	29%
10	2.15	29%
11	1.66	29%
12	1.29	29%
13	1.00	28%
14	0.78	-

LT[®] AND RH[™] SERIES POWER & TORQUE CURVE

HP @ 1800 RPM	TORQUE [LB-FT] @ 900 RPM	GOVERNED SPEED [RPM]
370	1250	2000
400	1450	2000
400	1850	2000
430	1550	2000
450	1750	2000
470	1750	2000
515	1850	2000

T14 TRANSMISSION BASE WARRANTY

TRANSMISSION 5 years, 750,000 miles (1,200,000 km)

CLUTCH 3 years, 350,000 miles (563,000 km)

DUAL STAGE AFTERTREATMENT KEY BENEFITS

With Dual Stage Aftertreatment, and significantly improved emission control, the combustion can be optimized further for improved performance and fuel efficiency.

- Two DEF Injectors
- Dual Stage catalysts with upstream and midstream DEF dosing

No driver interaction required

- The system manages the regeneration during operation

DPF filter does not need to be cleaned/replaced until 650,000 miles @ >8.2 mpg

Robust, compact aftertreatment allows less heat loss and helps significantly in improving the fuel economy and packaging

DUAL STAGE AFTERTREATMENT WARRANTY