INTERNATIONAL® S13 INTEGRATED POWERTRAIN



INTERNATIONAL® S13 INTEGRATED POWERTRAIN International® LT® Series and RH[™] Series

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A clean sheet of paper and decades of experience. That's what the engineering team started with when they began work on the International^{*} S13 Integrated Powertrain. And this wasn't just any team. This was a dream team of engineers located literally all over the world. Thanks to this spirit of collaboration between partner companies, the team was able to shift what's possible and rethink, redesign and reinvent what an integrated powertrain can be. The result is the S13 Engine, T14 Transmission and Dual Stage Aftertreatment system designed to work as one that's simple, easy-to-service and delivers stellar performance with superior operating economy.

HIGH-PRESSURE FUEL SYSTEM

- Improved efficiency with less parasitic loss
- ▶ 1800 bar

T14 TRANSMISSION

- 14-speed single countershaft geartrain transmission with a 26.7 overall ratio is designed for slow speed maneuverability as well as performance at highway speeds
- Electronic clutch actuator for smooth starting and fast shifting

6-BLADE FAN

 Converted from a 10-blade to a 6-blade for additional efficiency improvement

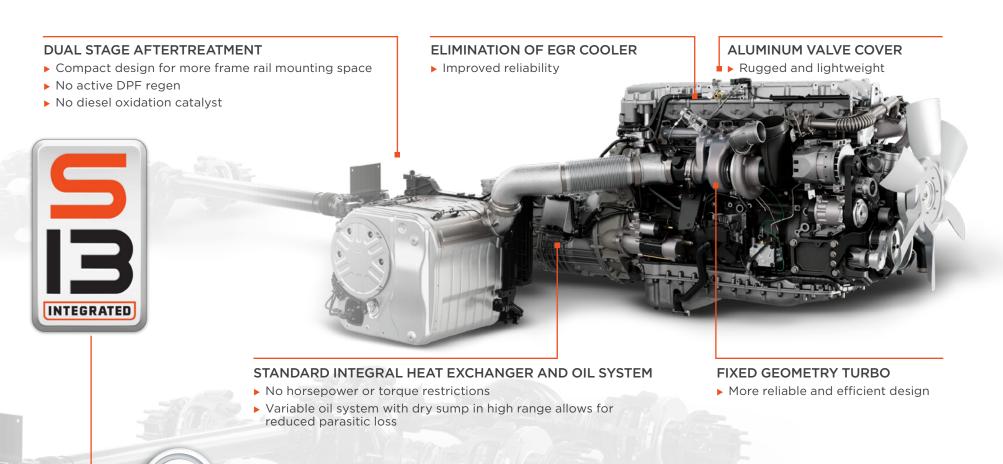
OIL FILTER

 Low displacement, low parasitic losses FUEL FILTER
Offered with industry leading systems

AIR COMPRESSORS

- Single cylinder (iron)
- Two cylinder (aluminum)
- Two cylinder clutched (aluminum)
- Aluminum pan provides corrosion protection

OIL PAN



Up to 15% More Fuel Efficient*

FITS INTO YOUR FLEET LIKE YOUR FAVORITE PAIR OF WORK GLOVES

The International S13 Integrated Powertrain was designed with fleets in mind. Not only can fleets benefit from exceptional fuel economy but they also get extended service intervals to keep their equipment on the road, plus the largest service network in the industry for convenient access to white-glove treatment from ASE-Certified technicians. Fleets can even order (if desired) the International Integrated Powertrain with a single, or dual PTO option installed directly at the factory. The powertrain is also designed to work seamlessly with OnCommand® Connection Advanced Remote Diagnostics, which has helped some fleets reduce vehicle failures requiring a tow by up to 80%.

* Comparing the fuel economy of the 2017 GHG International* A26 engine in a 2017 International* LT* Series truck with aero package to the fuel economy of the new International* S13 Integrated Powertrain in a 2024 International* LT* Series truck with the LT aero package and chassis enablers. Actual customer results may vary due to various factors, including but not limited to, truck specifications, weight of the vehicle, predictive features, environmental conditions, etc. Experience the International S13 Integrated Powertrain in the new LT^{*}Series and RH[™]Series

INTERNATIONAL[®] TRUCK / S13 INTEGRATED POWERTRAIN

S13 SPECIFICATIONS

Technical Specifications

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Engine Type	Diesel, 4-Cycle
Configuration	Inline 6-Cylinder
Displacement	12.74L (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)	2,284 lbs. (1,036 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 Component	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

International[®] LT[®] and RH[™] Series

HP @ 1800 RPM	Torque [lb-ft] @ 900 RPM	Governed speed [RPM]
400	1450	2000
400	1850	2000
430	1550	2000
450	1750	2000
470	1750	2000
515	1850	2000



DRIVING PROFITABILITY

INTEGRATED

More Time on

Road and Less

Time Waiting

for Repairs



Note: The information and conclusions contained herein are believed to be correct at time of publication, but do not necessarily apply to similar vehicles with different specifications or with production dates after the production of this publication. Vehicles with different specifications or later dates of production may yield different results. Vehicle specifications are subject to change without notice. 10/2022 ©2022 NAVISTAR Inc. TAD22003 All rights reserved. All marks are trademarks of their respective owners.

T14 BENEFITS

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 countershaft transmission designed for simplicity and reliability

International[®] LT[®] and RH[™] Series

Gear	Ratio	% Step	
R2	12.60		
R1	16.23		4 14.
1	20.81	29%	and the second second
2	16.16	29%	1 to a state of the state of th
3	12.57	29%	a let a let a series a series and a series and a series and a series of the series of
4	9.76	29%	
5	7.56	29%	
6	5.87	29%	
7	4.55	29%	
8	3.53	28%	The second is the second
9	2.77	29%	
10	2.15	29%	Viletter x
11	1.66	29%	Celler Color
12	1.29	29%	
13	1.00	28%	
14	0.78	-	

Transmission Base Warranty (includes towing)

Transmission	5 years, 750,000 miles (1,200,000 km)	
Clutch	3 years, 350,000 miles (563,000 km)	

A/T BENEFITS

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 Base Warranty

2 years, unlimited miles, unlimited hours

