# INTERNATIONAL® S13 INTEGRATED POWERTRAIN

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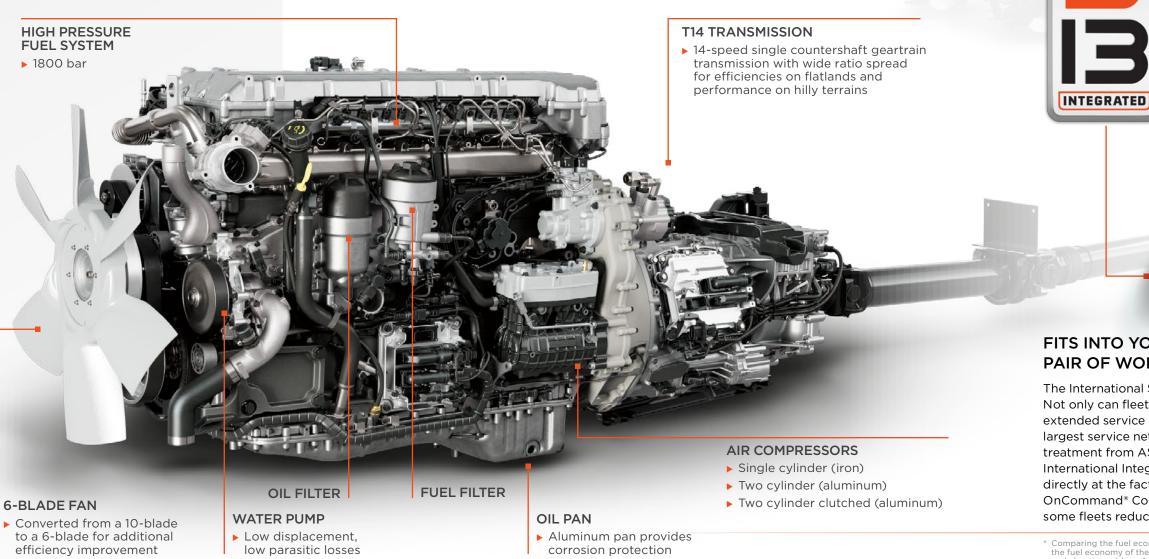
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INTERNATIONAL S13 INTEGRATED POWERTRAIN

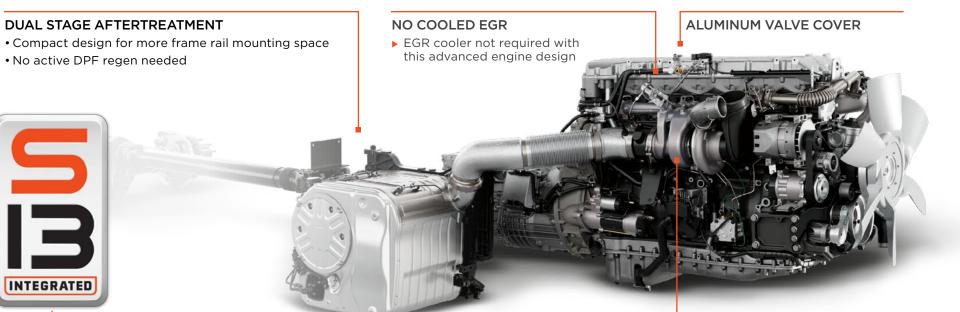




A clean sheet of paper and decades of experience. That's what the engineering team started with when they began work on the International \$13 Integrated Powertrain. And this wasn't just any team. This was a dream team of engineers located literally all over the world. Thanks to this spirit of collaboration 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.



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<sup>®</sup> S13 Integrated Powertrain in a 2024 International<sup>®</sup> LT<sup>®</sup> 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.



FIXED GEOMETRY TURBO More reliable and efficient design

### **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<sup>®</sup> Connection Advanced Remote Diagnostics, which has helped some fleets reduce vehicle failures requiring a tow by up to 80%.

Experience the International S13 Integrated Powertrain in the new LT<sup>®</sup>Series and RH<sup>™</sup>Series

### **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)         |
| <b>Compression Ratio</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 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)                   |



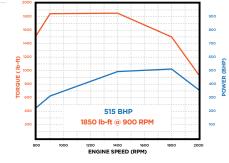
#### Industry Leading Engine Warranty

| 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<br>Component | Up to 7 years, 700,000 miles              |
|                             |                                           |

\*Towing for Vehicles with engine failures

### International<sup>®</sup> LT<sup>®</sup> and RH<sup>™</sup> Series

| 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                 |
|               |                          |                      |



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  $\mathsf{GCW}$ 

Single countershaft transmission designed for simplicity and reliability

### International<sup>®</sup> LT<sup>®</sup> and RH<sup>™</sup> Series

| Gear | Ratio | % Step |                                                          |
|------|-------|--------|----------------------------------------------------------|
| R2   | 12.60 |        |                                                          |
| R1   | 16.23 |        | 14 Ma                                                    |
| 1    | 20.81 | 29%    | and a second second                                      |
| 2    | 16.16 | 29%    | HILE A THE SHORE AND |
| 3    | 12.57 | 29%    | Association and the second second                        |
| 4    | 9.76  | 29%    |                                                          |
| 5    | 7.56  | 29%    |                                                          |
| 6    | 5.87  | 29%    |                                                          |
| 7    | 4.55  | 29%    | E                                                        |
| 8    | 3.53  | 28%    | The second second                                        |
| 9    | 2.77  | 29%    |                                                          |
| 10   | 2.15  | 29%    | Vilenter A                                               |
| 11   | 1.66  | 29%    | Lee l'oc                                                 |
| 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

