



X15NTM

The Future of Natural Gas Power IS NOW

X15N™ Reliability & Durability

CUMMINS HELM™ X15 GLOBAL PLATFORM VALIDATION

10 years
research & development

57,500 hours
in-house and overload testing

13.4 million mi
on-road testing

Global Production **47,000+** engines

Natural Gas 15N Platform

74 K+ Production engines operating globally

11 B+ Miles logged by production engines globally

Highest milage units with over 620K miles and 1 over 825K miles.

**As of Aug 2025*

37

Public

Cummins

NATURAL GAS VALUE DRIVERS



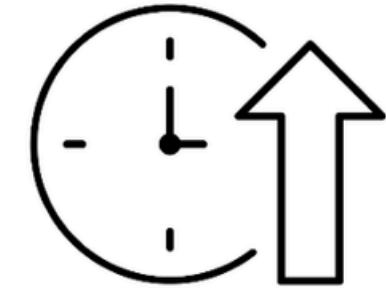
Environmental & Sustainability Benefits

- Lower GHG and NOx levels at the tailpipe
- Potential to reach sub-zero wheel to wheel emissions with Renewable Natural Gas (RNG)
- Start reducing total transportation footprint today



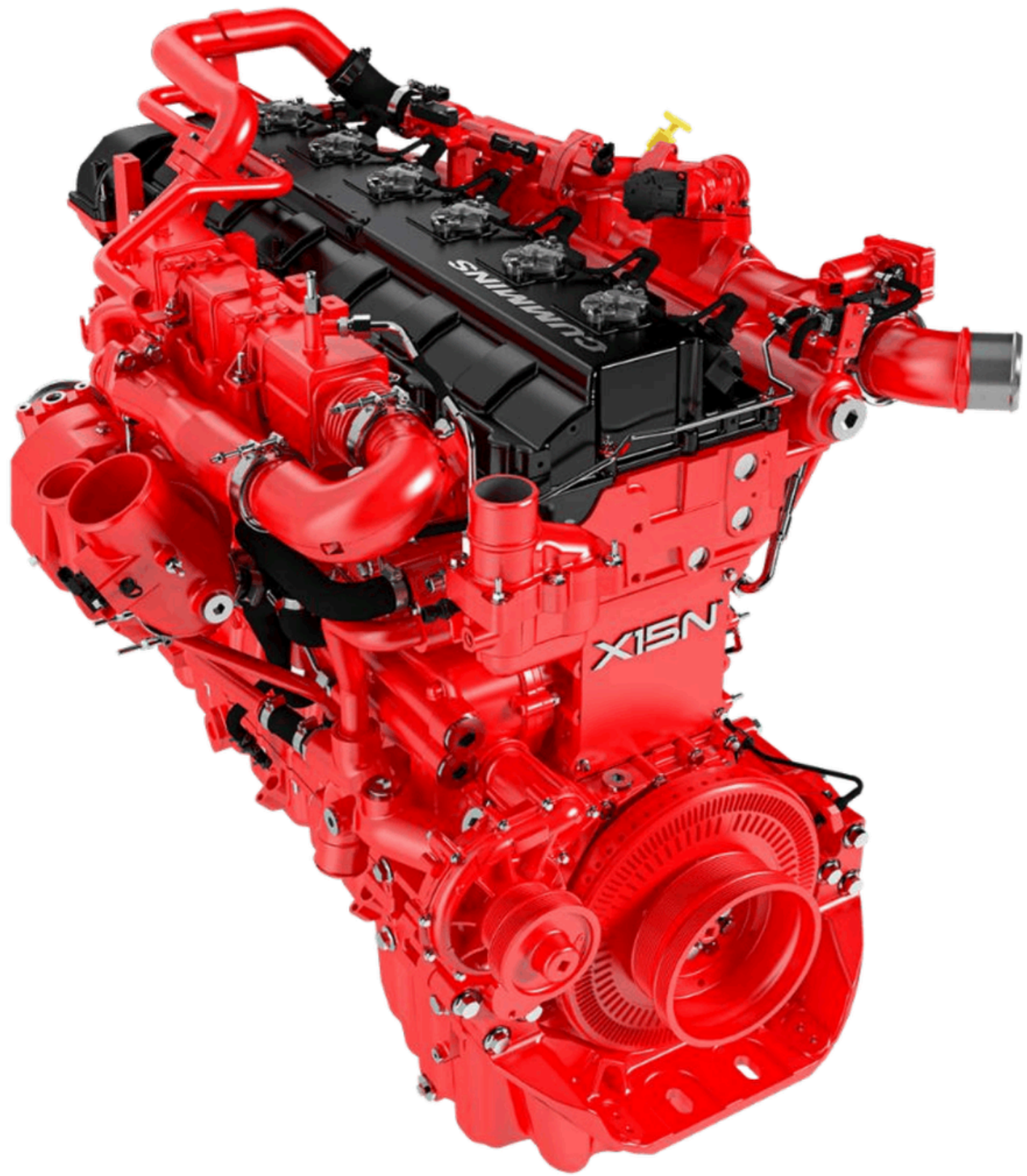
Economic Benefits

- Low cost of fuel
- Can provide competitive advantage to help you win business
- Much lower incremental vehicle cost than BEV / Fuel Cell



Operational Benefits

- Least disruptive and most mature alternative fuel technology (for all applications and routes)
- Only alternative fuel that can supply required range and power for long-haul/heavy-duty vehicles
- Suitable for multishift operation
- Optimized powertrain and fuel system
- High level of parts commonality with diesel



X15N™

- Industry-first **Big Bore Natural Gas Powertrain**
- Capable to **meet EPA/CARB24 and future** NOx regulations
- **Compact 15 Liter** – 500 lbs lighter than current 15L diesels
- Up to a **10% Fuel Economy/GHG improvement** over ISX12N
- **Up to 500hp & 1850lb-ft** of torque
- Compact **passive TWC aftertreatment** system
- **Integrated** with Endurant HD-N
- Incorporates Cummins **Powertrain Features & Strategies**
- Potential for **Carbon Negative Solution with RNG**

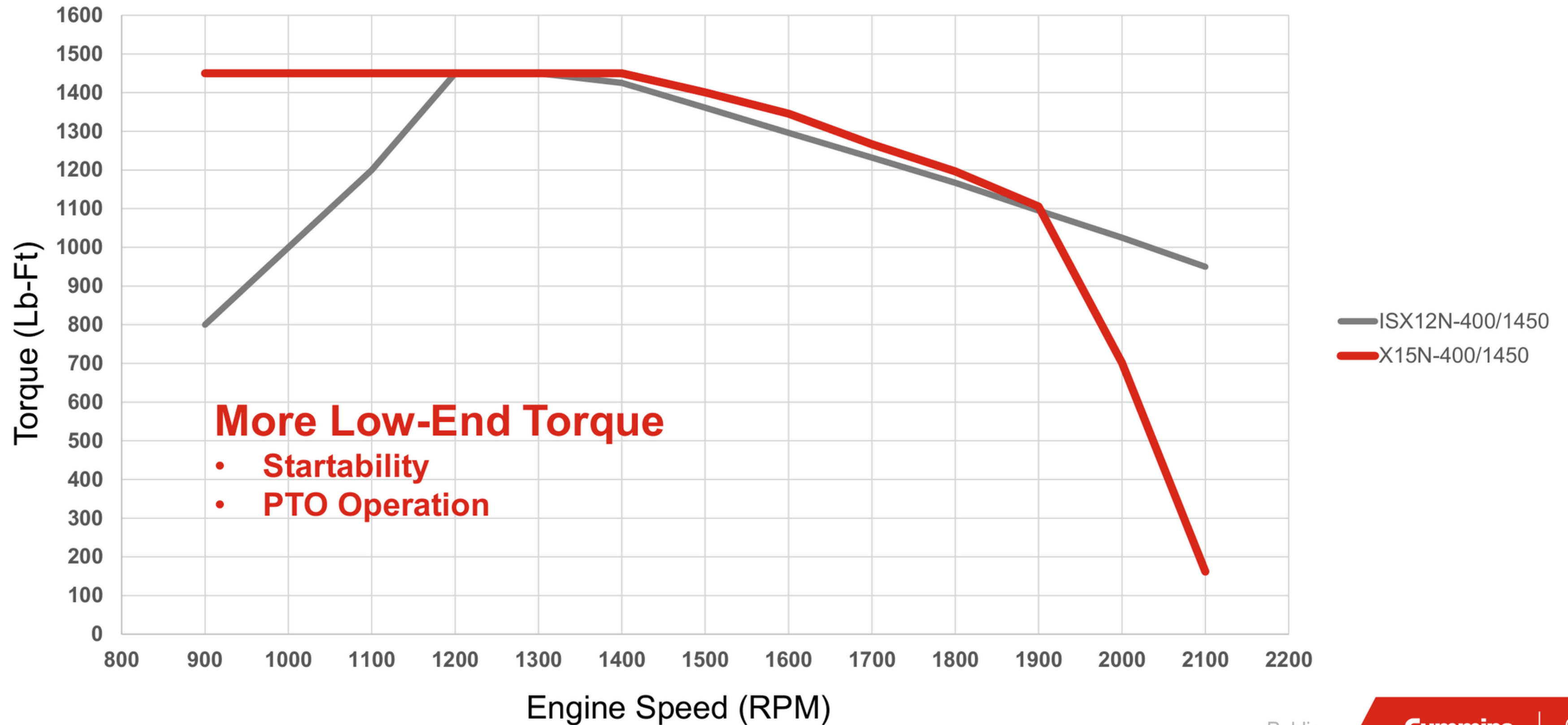
Product details are preliminary and may be subject to change at any time without notice.

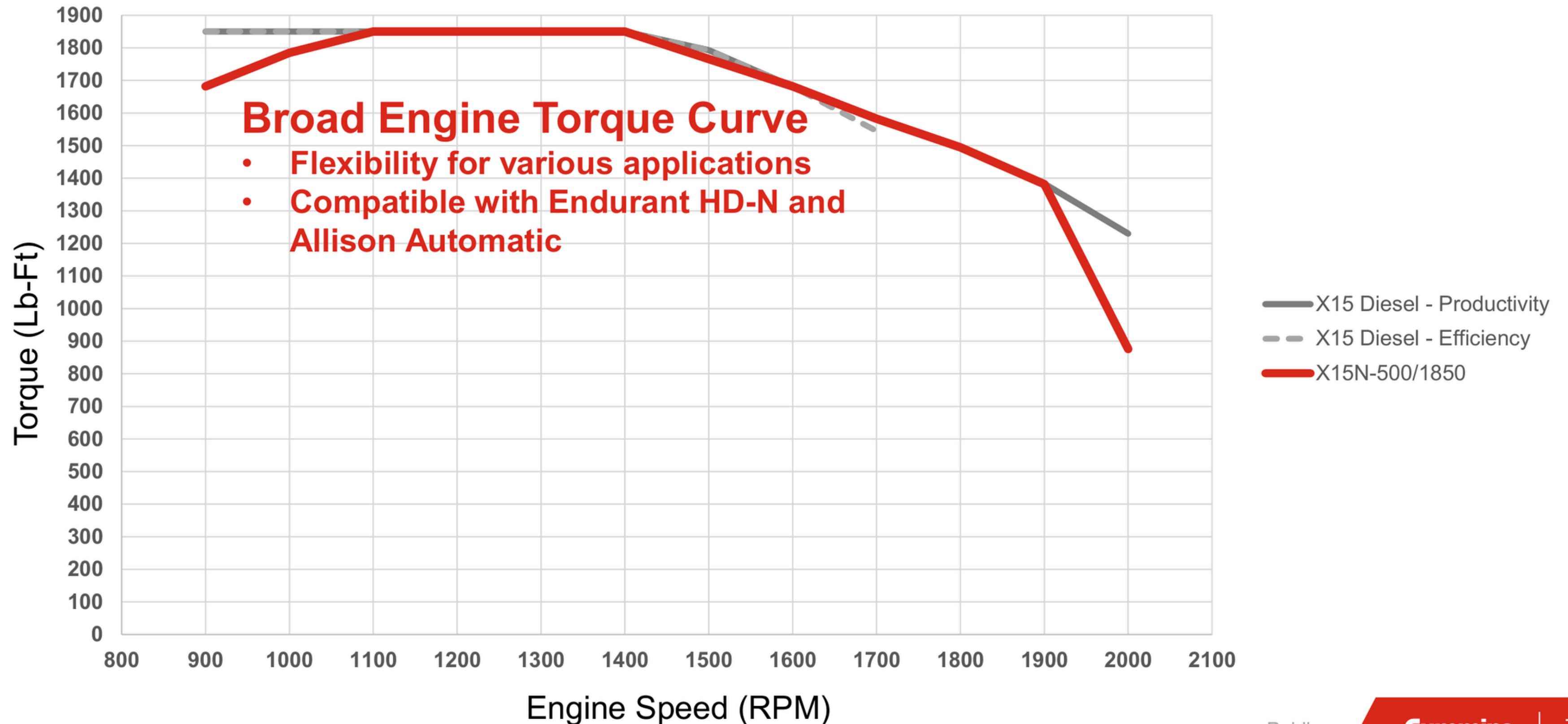


Ratings

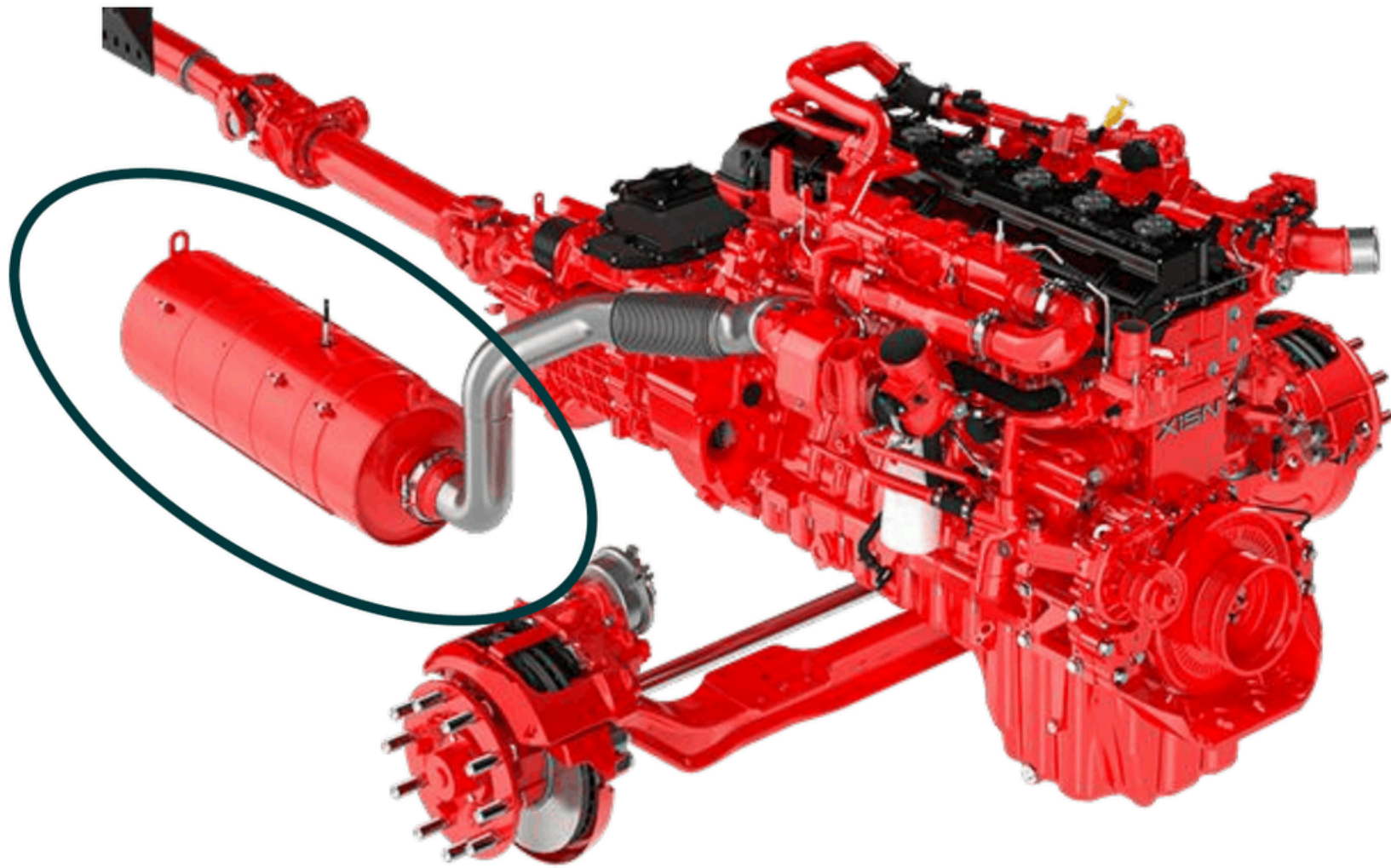
Model	Governed Power	Maximum Power	Peak Torque
Name	hp (kW) @ RPM	hp (kW) @ RPM	Lb-Ft (Nm) @ RPM
Line Haul/Regional Truck - Endurant and Allison Transmissions Only			
X15N 400	400 (298) @ 1900	410 (306) @ 1800	1450 (1966) @ 900
X15N 400	400 (298) @ 1900	410 (306) @ 1800	1650 (2237) @ 900
X15N 450	450 (336) @ 1900	461 (344) @ 1800	1650 (2237) @ 900
X15N 450	450 (336) @ 1900	461 (344) @ 1800	1750 (2373) @ 1000
X15N 500	500 (373) @ 1900	512 (382) @ 1800	1650 (2237) @ 900
X15N 450	450 (336) @ 1900	461 (344) @ 1800	1850 (2508) @ 1100
X15N 500	500 (373) @ 1900	512 (382) @ 1800	1850 (2508) @ 1100
Refuse			
X15N 400	400 (298) @ 1900	410 (306) @ 1800	1450 (1966) @ 900
X15N 400	400 (298) @ 1900	410 (306) @ 1800	1650 (2237) @ 900
ST Ratings			
Line Haul/Regional Truck - Endurant Transmissions Only			
X15N 400ST	400 (298) @ 1900	410 (306) @ 1800	1650 / 1450 (2237 / 1966) @ 900
X15N 400ST	400 (298) @ 1900	410 (306) @ 1800	1750 (2373) @ 1000 / 1550 (2102) @ 900
X15N 400ST	400 (298) @ 1900	410 (306) @ 1800	1850 (2508) @ 1100 / 1650 (2237) @ 900
X15N 450ST	450 (336) @ 1900	461 (344) @ 1800	1650 / 1450 (2237 / 1966) @ 900
X15N 450ST	450 (336) @ 1900	461 (344) @ 1800	1750 (2373) @ 1000 / 1550 (2102) @ 900
X15N 450ST	450 (336) @ 1900	461 (344) @ 1800	1850 (2508) @ 1100 / 1650 (2237) @ 900
X15N 500ST	500 (373) @ 1900	512 (382) @ 1800	1850 (2508) @ 1100 / 1650 (2237) @ 900
EX Ratings			
Line Haul/Regional Truck - Endurant Transmissions Only			
X15N 400EX	400 (298) @ 1900	410 (306) @ 1800	1650 (2237) @ 900
X15N 400EX	400 (298) @ 1900	410 (306) @ 1800	1750 (2373) @ 1000 / 1650 (2237) @ 900
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X15N™ COMPARISON TO ISX12N™ @ 400 hp / 1450 lb-ft





Maintenance Free Three-Way Catalyst

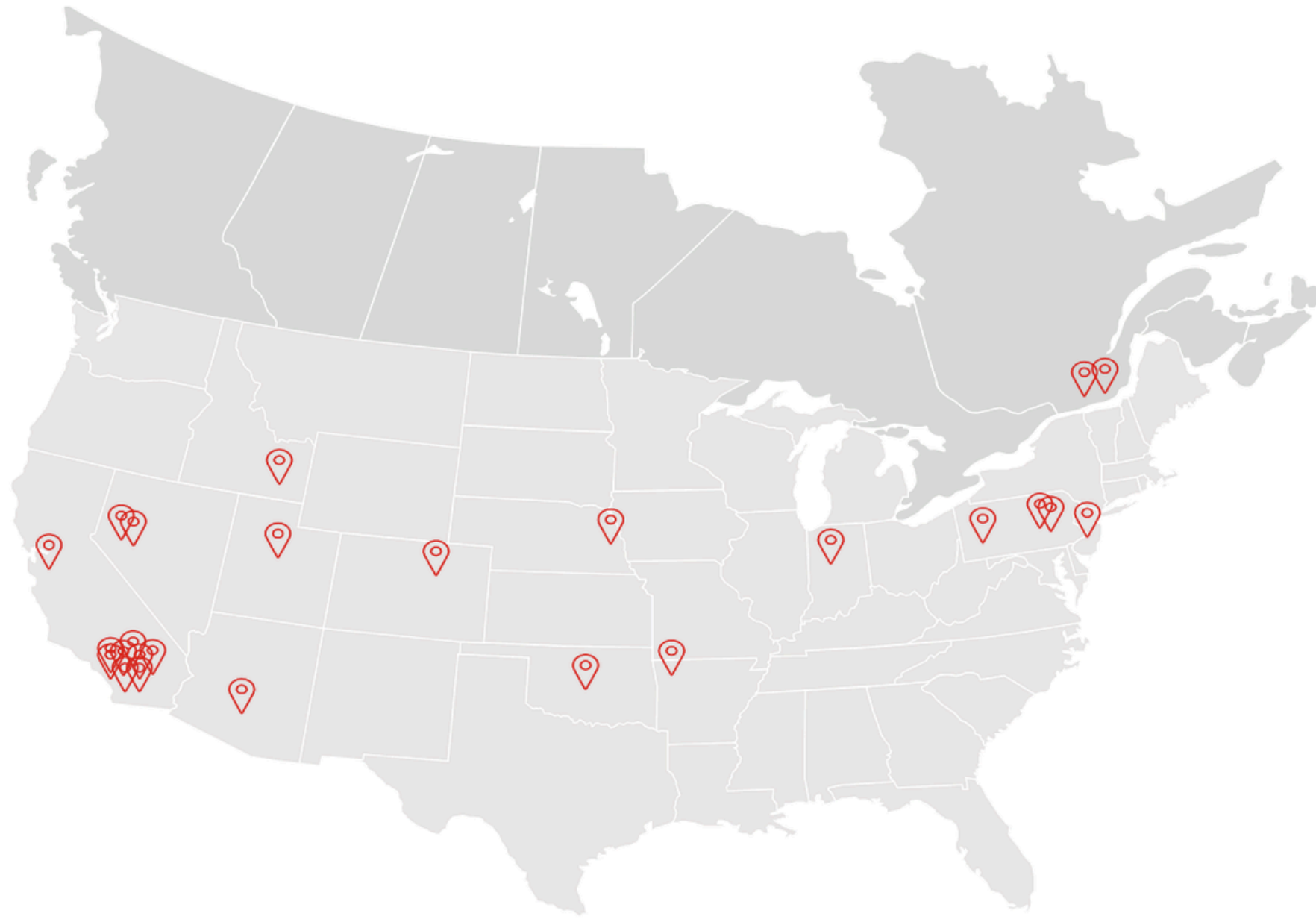
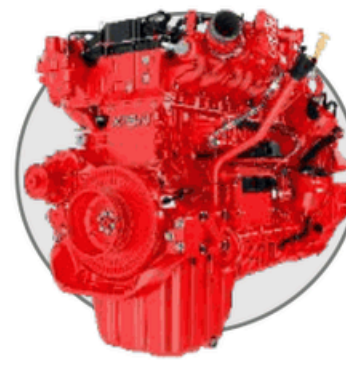


- Lowest cost to operate in urban return to base operations with extended service life
- Similar to fluid-free catalyst found on gasoline-powered passenger cars
- Packaged as a muffler with vertical or horizontal mount
- Weights ~135 pounds

ADDITIONAL BENEFITS

- Maintenance-free, no filters to clean or replace
- More reliable, no regen downtime
- No DEF fluid, filter or sensors

X15NTM NORTH AMERICA FIELD TEST UNITS



3 Applications

- Linehaul
- Regional Haul
- Vocational - Refuse

24 Units

16 Fleets

2+ Million miles* driven

12,000 ft. of elevation – Loveland Pass, CO

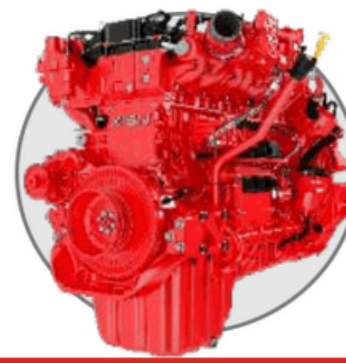
107° F – Summer test (Las Vegas, NV)

- 5° F Winter Test (Jackson, WY)



**Mileage accumulation as of December 2024*

X15N™ FIELD TEST FLEETS



OZINGA®

WM

Ryder®

ROBERT



Walmart

WERNER
ENTERPRISES

KNIGHT
TRANSPORTATION



NATIONAL
Ready Mixed Concrete Company

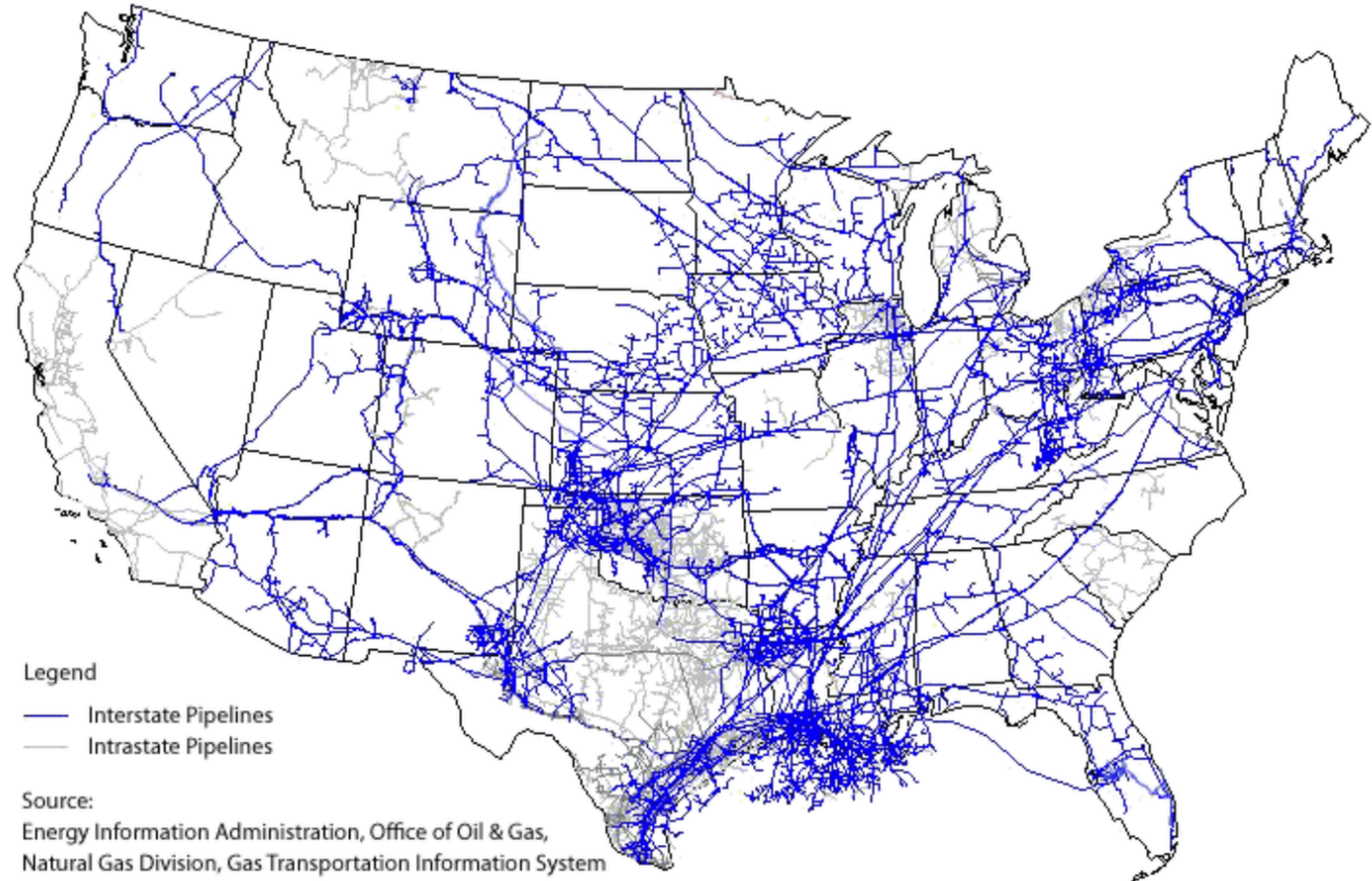
FXI
FOOD EXPRESS, INC.

SWIFT
TRANSPORTATION

Natural Gas: Infrastructure

Pipeline

- 305,000 miles of inter- and intrastate natural gas pipeline
- 2.5 million miles of underground natural gas distribution lines
- Here's an [interactive map](#) with the US natural gas pipeline

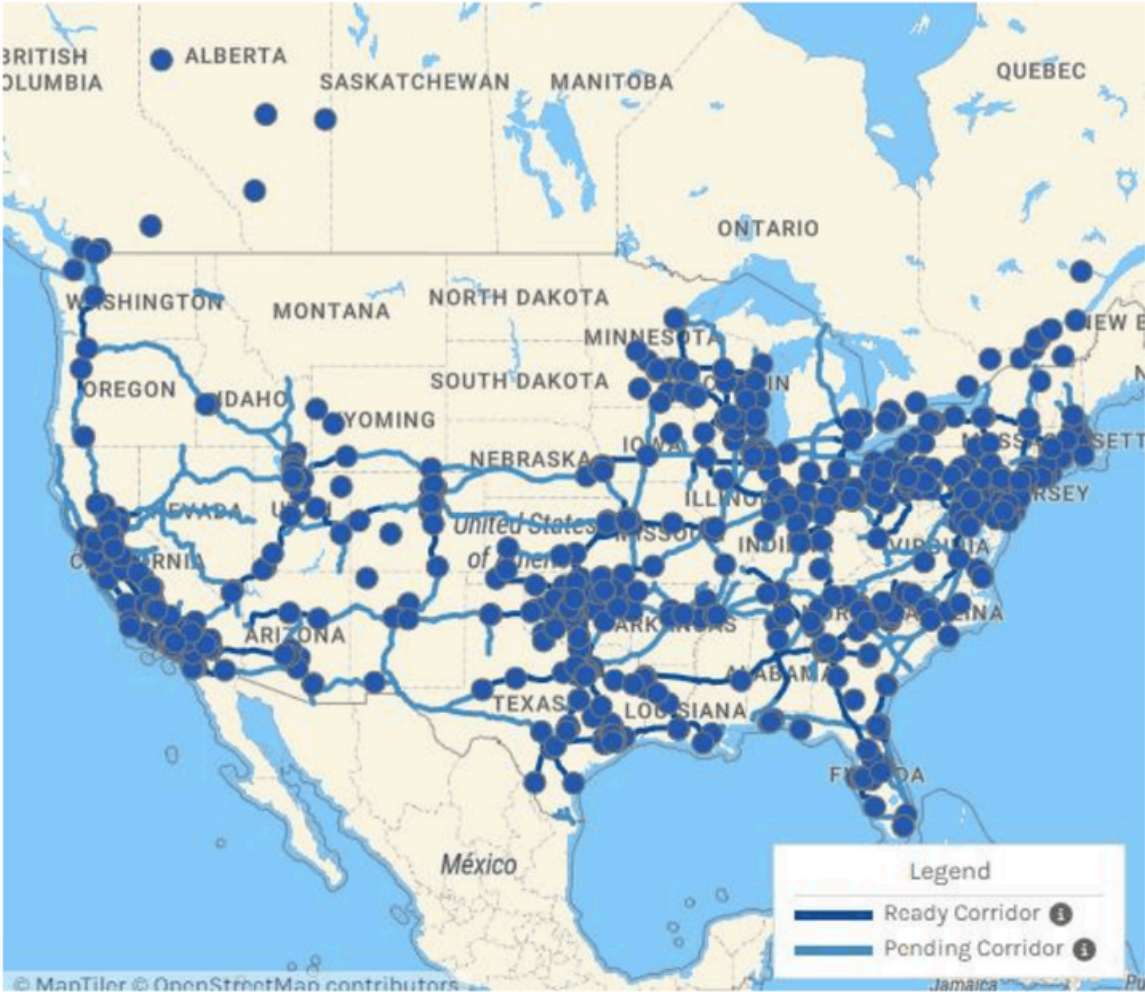


INVESTING IN US NATURAL GAS INFRASTRUCTURE



Natural Gas: Class 3-8 Fueling Stations

		United States		Canada	
		Public	Public & Private	Public	Public & Private
Class 3-6	CNG	700	1,250	33	98
	RNG	355	450	9	10
Class 7-8	CNG	582	1,075	31	81
	RNG	296	383	8	9



1,348 stations for medium-duty (class 3-6) trucks and **1,156** stations for heavy-duty (class 7-8) trucks in US and Canada

[Alternative Fuels Data Center: Natural Gas Fueling Station Locations \(energy.gov\)](https://energy.gov/alternative-fuels-data-center/natural-gas-fueling-station-locations)

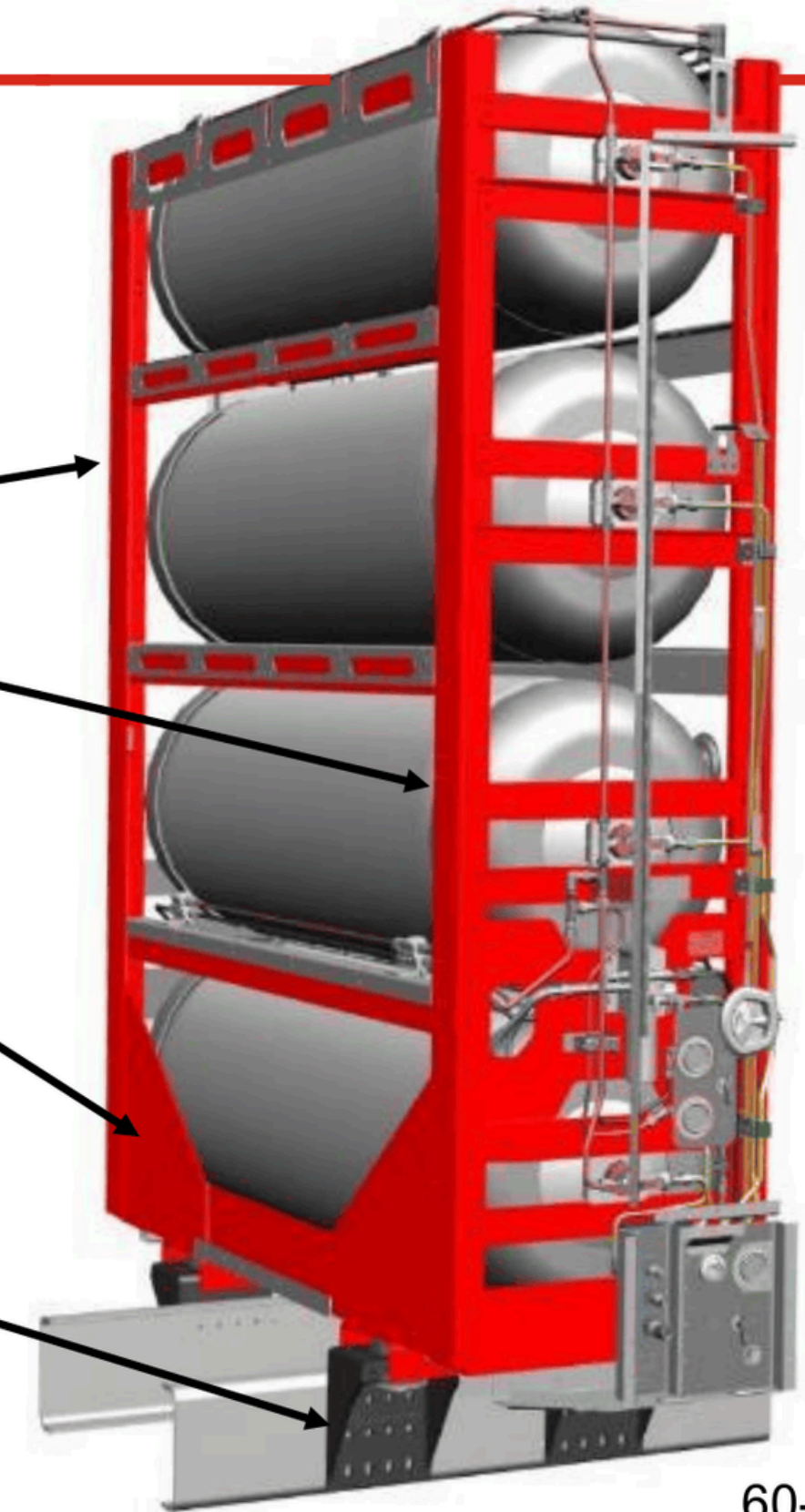


Fuel Tank Providers

Back of Cab Mount

Rigid structure designed for durability

- Parts highlighted in red are designed to protect the tank from torsional loads:
 - Extruded aluminum beams completely frame the entire fuel system
 - Alloy steel reinforcements and base plates for high rigidity
- Cast iron mounting brackets

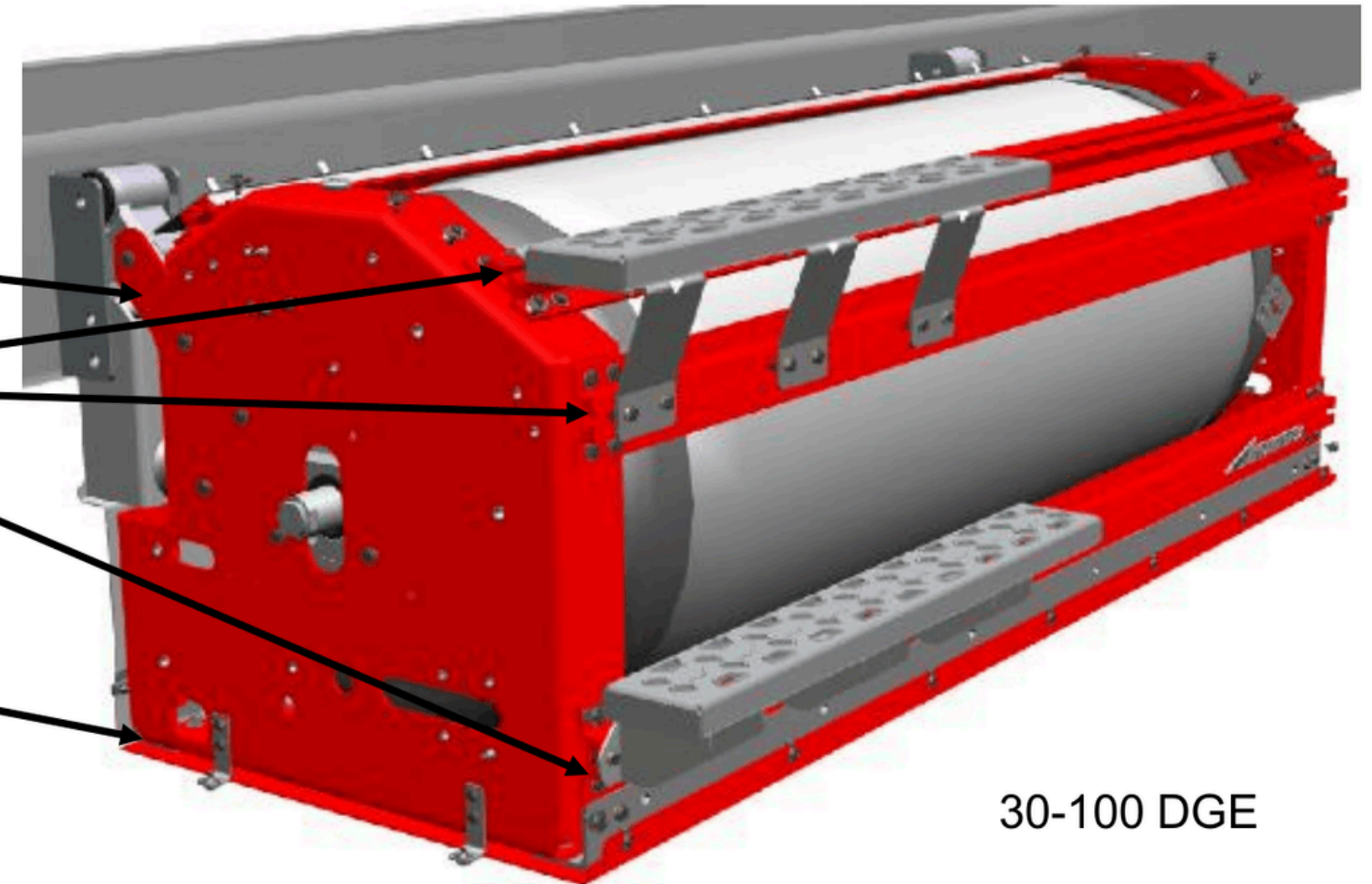


60-175 DGE

Rail / Side Mount

Offers more safety and tank protection than any other fuel system on the market

- Parts highlighted in red are designed to protect the tank from torsional loads and provide strike protection:
 - HD steel end plates completely enclose both ends of the tank
 - Extruded aluminum torsion beams span entire length
- Underside of system protected by heavy-duty frame rails
- Cast iron mounting arm system with alloy steel reinforcement plates

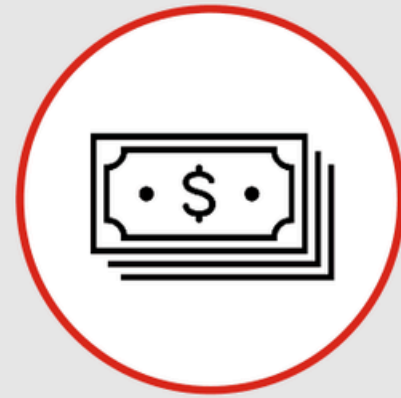


30-100 DGE

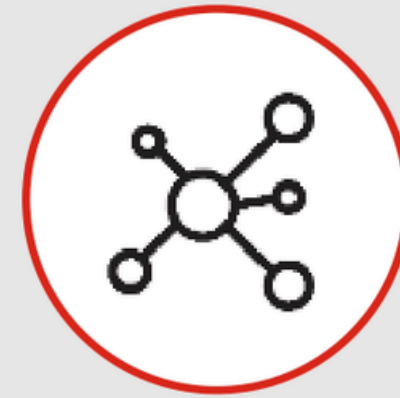
KEY TAKEAWAYS



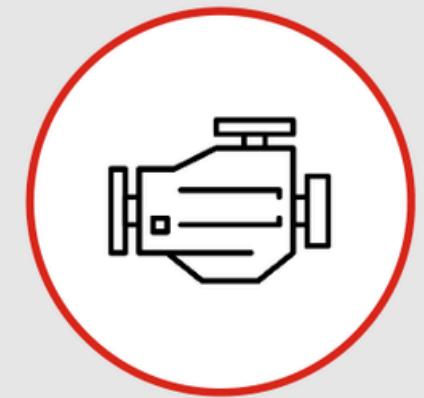
Natural gas is primed
to help
fleets achieve
Destination Zero



Natural gas is
cost-effective



Natural gas
has established
infrastructure that is
still expanding



The Cummins X15N
is the first big-bore
natural gas
powertrain

Q+A



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