

NRE[®]

LOCOMOTIVE SPOTLIGHT

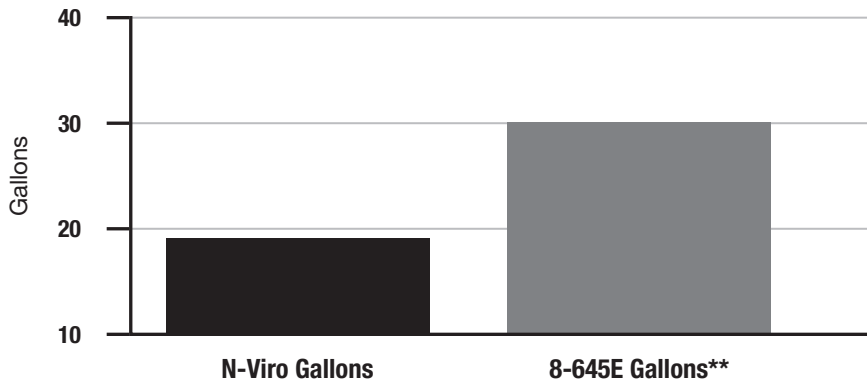
DEMO LISTINGS



MODEL	HP RATINGS	LOCATION	GENSET / TIER	UNIT#
1GS7B	700 HP	Dixmoor, IL	1 GenSet/Tier III Locomotive	NREX 32
3GS21B	2100 HP	Mt. Vernon, IL	3 GenSet/Tier II Locomotive	NREX 2009
3GS21B	2100 HP	Mt. Vernon, IL	3 GenSet/Tier II Locomotive	NREX 2008
3GS21B	2100 HP	Mt. Vernon, IL	3 GenSet/Tier III Locomotive - DEMO	NREX 2020
2GS36C-DE	3600 HP	Silvis, IL	2 GenSet/Tier III Locomotive	NREX 3600

Fuel Consumption Comparison - 1GS7B N-ViroMotive vs 8-645E

Relative fuel consumption comparison based on the statistical duty cycle table shown



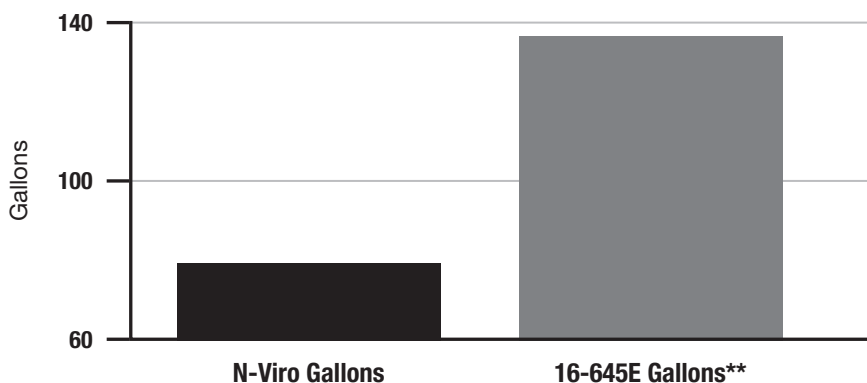
Statistical Download Information

In Service Hours	1752
Total Working Hours	800.10
Idle Limiting Hours	173.08
Manual Shutdown Hours	778.82

**Total idle gallons for 8-645E include gallons not saved from automatic idle shutdown.

Fuel Consumption Comparison - 3GS21B N-ViroMotive vs 16-645E

Relative fuel consumption comparison based on the statistical duty cycle table shown



Statistical Download Information

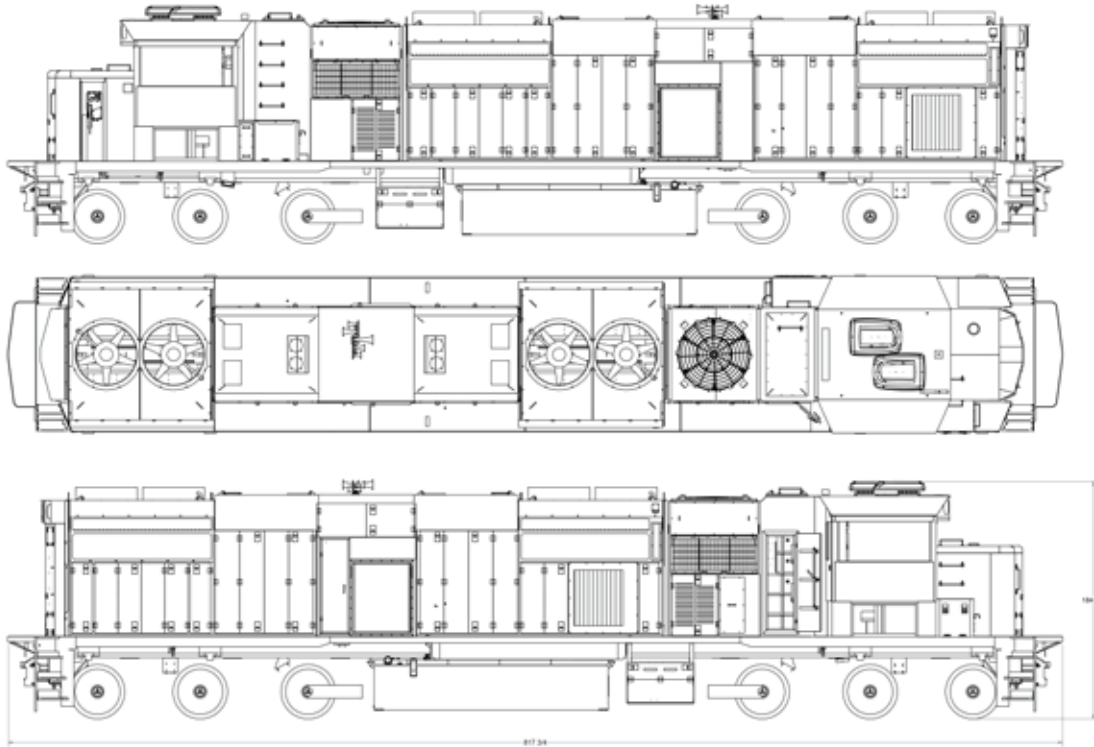
In Service Hours	9744
Total Working Hours	3343.23
Idle Limiting Hours	4208.48
Manual Shutdown Hours	2192.28

**Total idle gallons for 16-645E include gallons not saved from automatic idle shutdown.

TIER LOCOMOTIVE NREX 3600

NRE N-ViroMotive 2GS36C-DE six-axle road and switcher locomotive features:

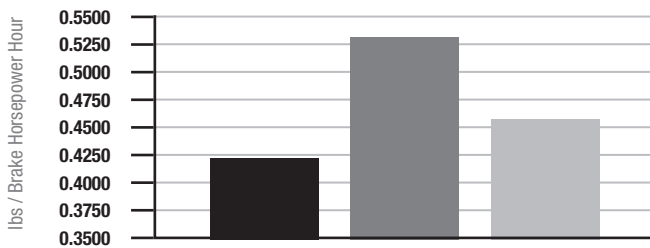
- Multiple engine GenSet technology
- Tier III
- Superior adhesion via Independent Axle Control (IAC)
- Proven, reliable, world class propulsion and control
- Significant fuel savings in multi-use duty cycles



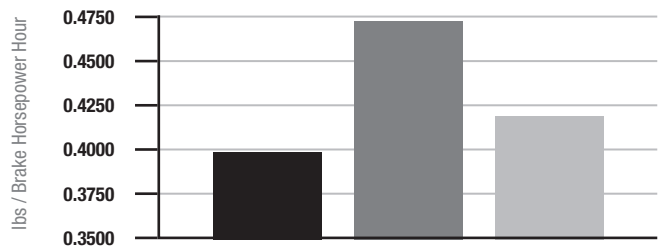
Fuel Burn Comparison - 2GS36C N-ViroMotive vs. 16-645E3 & 16-645E3C

■ N-Viro BSFC ■ 16-645E3 BSFC ■ 16-645E3C BSFC

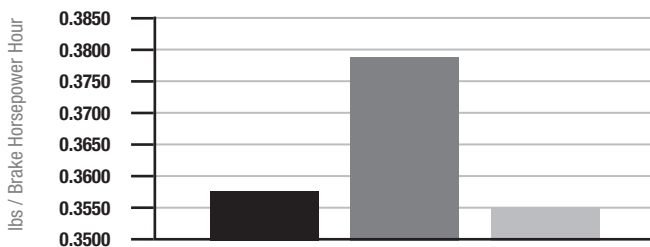
Class 1 Railroad Real World Switcher Duty Cycle



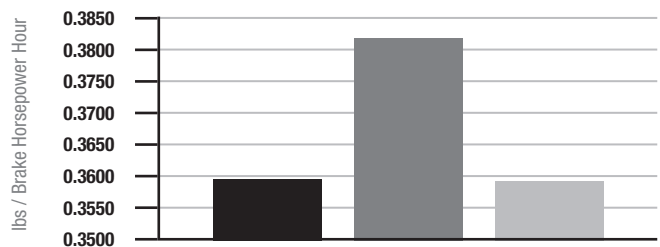
AAR Switcher Duty Cycle



AAR Medium Duty Cycle

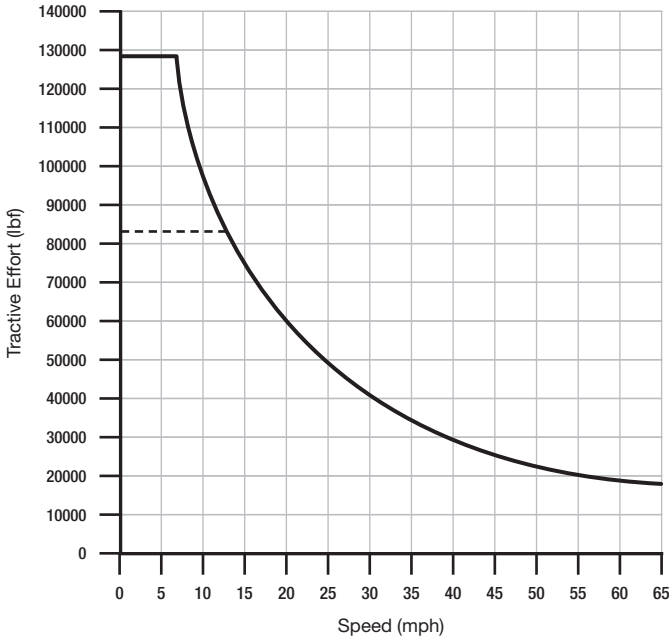


EPA Line Haul Duty Cycle



NREX 3600 Tractive Effort vs. Speed

Model 2GS36CDE



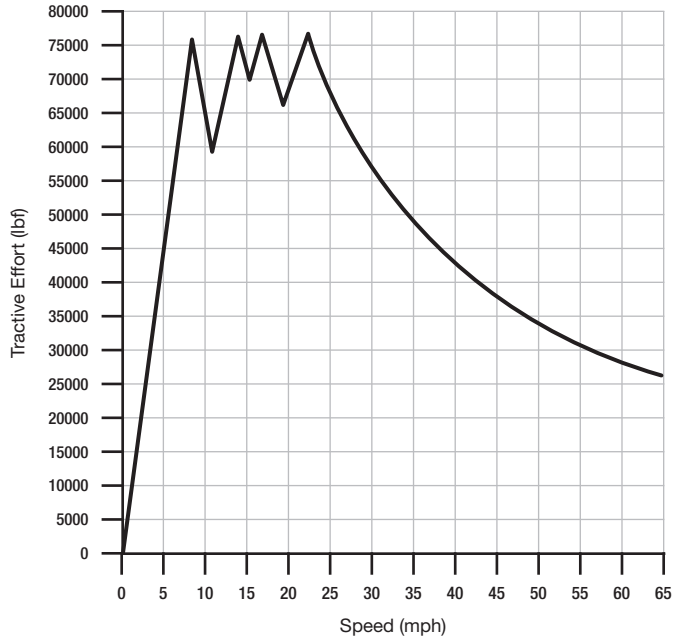
Model: NREX 3600
Mass: 210 tons
Traction Motors: D77/78
Gear Ratio: 62:15
Wheel Diameter: 40"
Traction Power: 3350 hp

Engine Type: QSK50 MCRS
Power Rating: 1800 bhp
US Emissions Cert: T3 Line Haul
Starting TE: 128280 lbf
Continuous TE: 83614 lbf
Continuous Speed: 12.4 mph

** Actual traction power may vary. Entire curve may not be available at all times due to limitations of wheel/rail adhesion.*

NREX 3600 Braking Effort vs. Speed

Model 2GS36CDE



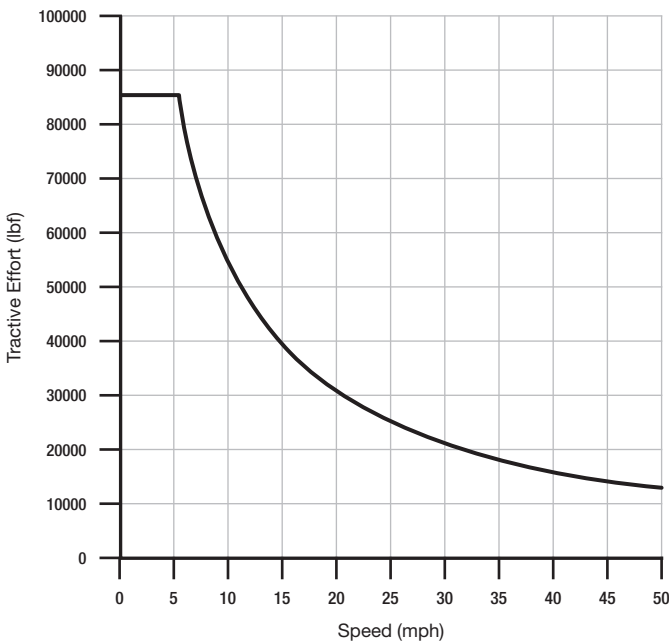
Model: NREX 3600
Mass: 210 tons
Traction Motors: D77/78
Gear Ratio: 62:15
Wheel Diameter: 40"

Cold Resistance: 0.632 Ω
Grid Current: 900 A
Field Current: 1000 A
Extendend Range: 3 stage
Peak DB Effort: 76624 lbf
Self Load Capacity: 100%

** Actual braking effort may vary. Entire curve may not be available at all times due to limitations of wheel/rail adhesion.*

NREX 2020 Tractive Effort vs. Speed

Model 3GS21BDE



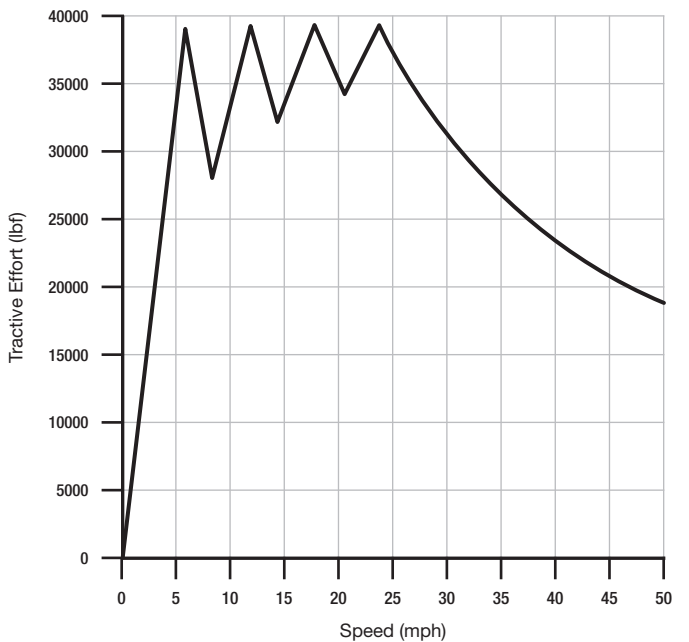
Model: NREX 2020
Mass: 136 tons
Traction Motors: D77/78
Gear Ratio: 62:15
Wheel Diameter: 40"
Traction Power: 1850 hp

Engine Type: QSK19 MCRS
Power Rating: 700 bhp
US Emissions Cert: T3 Line Haul
Starting TE: 85520 lbf
Continuous TE: 55607 lbf
Continuous Speed: 9.8 mph

** Actual traction power may vary. Entire curve may not be available at all times due to limitations of wheel/rail adhesion.*

NREX 2020 Braking Effort vs. Speed

Model 3GS21BDE



Model: NREX 2020
Mass: 136 tons
Traction Motors: D77/78
Gear Ratio: 62:15
Wheel Diameter: 40"

Cold Resistance: 0.86 Ω
Grid Current: 700 A
Field Current: 975 A
Extendend Range: 3 stage
Peak DB Effort: 39446 lbf
Self Load Capacity: 100%

** Actual braking effort may vary. Entire curve may not be available at all times due to limitations of wheel/rail adhesion.*