



Powerhouse

A MARMON RAIL COMPANY



Railcar Mover Group



The World's Most Fuel Efficient Locomotives

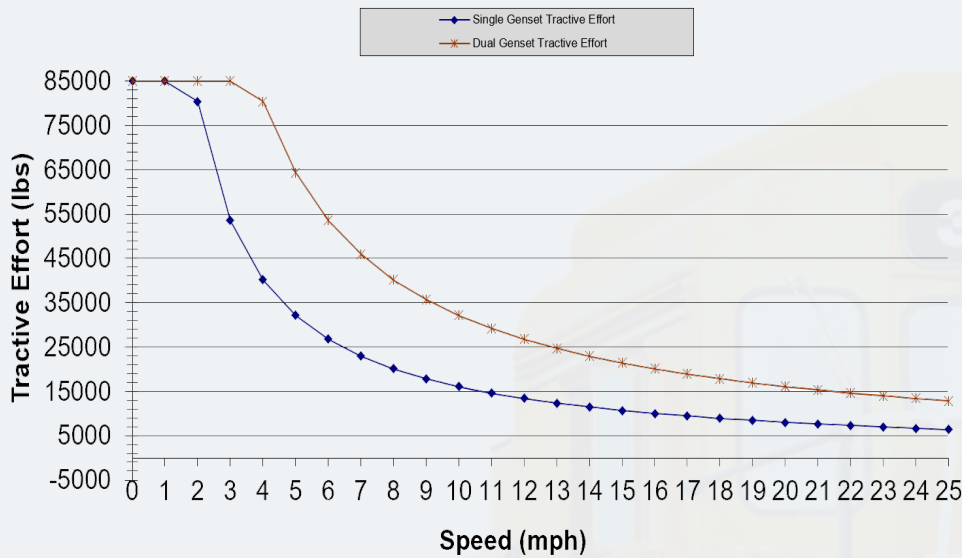


Marmon Railyard
Products & Services

powerhouserail.com

LEAF® Tier 4 Switching

Tractive Effort vs. Speed



Mass: 260,000 lbs.
 Traction Motors: D77 or better
 Gear Ratio: 62:15
 Wheel Diameter: FAT 40"
 Power Rating: 600 or 1200hp

Model: Dual
 US Emissions Cert: Tier 4 Switch
 Starting TE: 85,000 lbs.
 Continuous TE: 32,159 lbs. @ 10 mph

Model: Single
 US Emissions Cert: Tier 4 Switch
 Starting TE: 85,000 lbs.
 Continuous TE: 16,080 lbs. @ 10 mph

Actual tractive effort may vary. Numbers shown are for LEAF® locomotive and assume clean, dry rail. Actual tractive effort may vary as track conditions will affect wheel/rail adhesion.

General Data

Horsepower (gross) per Engine Skid.....600 HP @ 1800 RPM
 Maximum No. of Engine Skids.....Two (2) Skids
 Wheel Arrangement (AAR Symbol).....B-B (Bo-Bo)
 Minimum Track Curvature: Alone.....39 Degrees
 Maximum Governed Speed.....10 MPH
 Programmable Speed up to.....30 MPH
 Clearanceup to Plate C (186 in. high)
 AAR, APTA, FRA, Conformance.....As applicable for service type
 FRA Service Type..... Yard/Switching

Tier 4 Engine Details

Engine.....Cummins QSX15 Tier 4 Final
 Generator.....Stamford (500 kw) 480 VAC 3 Phase
 Radiator/CAC SystemDiesel Radiator Company DR4134-00
 Skid Dimensions167 in. L x 96 in. H x 63 in. W
 Coolant18 US Gallons
 Lubricating Oil22 US Gallons
 Engine StartFour (4) 12 Volt DC batteries in series/parallel
 Remote Radiator Refill System.....Standard

Truck Details

Wheel Diameter.....New FAT 40"
 Gearing.....62:15
 Journal BearingsNEW as equipped with Hyatt
 Gear Case.....NEW
 Brakes.....Single Shoe
 Locomotive Control System.....American Traction System (ATS)
 Traction Motors.....D77 or better

Cab

Heaters - Two (2) Forced Air4000 watts/13,600 BTU
 Engineer SeatStandard
 Courtesy Outlet.....One (1) 110 VAC 15 amp Standard
 AAR Control Stand.....Standard
 Alerter System.....Standard
 Engine Diagnostic Screen.....Standard

Air System

Air Compressor...Atlas Copco GAR30
 Air Brakes.....26L
 Air Piping/Reservoirs.....NEW
 Air Brake Valves.....Reconditioned
 Horn Type.....Nathan Airchime K3LA
 Wiper Motors.....NEW

Fuel System

Fuel Tank.....New
 Fuel Capacity.....1,200 Gallons
 Fuel Gauge.....Electronic



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Exceptional Services & Quality Products

Reduced Emissions Reduced Maintenance Costs

- FRA Compliant New Locomotives
- Reduces Fuel Consumption 45-65%, 92% less NOx , and 80% less oil
- Zero stack embers - eliminates ground fire concerns
- Reliable – with 98.5% uptime
- Programmable Automatic Shutdown and Speed Control - 10 mph default
- Proprietary locomotive and traction control minimizes wheel slip and track damage
- 15% lower decibel level than conventional locomotives
- Reduced start-up time, one-button push start
- Easy to maintain - available parts
- Eligible for Diesel Emission Reduction Grants and Emission Credits



45% - 65% less fuel
80% - 85% less lube oil
50% reduction in carbon emissions
92% - 99% reduction in NOx and PM emissions

- Easy to maintain and troubleshoot
- Training for Operations and Maintenance staff provided with purchase
- FULL maintenance support for first year available in most locations
- Full product documentation available in multiple languages
- 1 Year Leaf warranty
- Global support from partners like Cummins, Atlas Copco, and American Traction Systems

Contact your LEAF Locomotive representative today

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