

INTERSTATE DISTRIBUTOR CO.



Pacific Northwest
Pollution Prevention
Resource Center
(PPRC)

October 30, 2013

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Director, Maintenance & Facilities

Safety First
Service Always

ABOUT INTERSTATE

- Head Quarters - Tacoma WA
- 2013 Marks 80 years in business. Company was founded in 1933 and was purchased by Salt Chuk in 2011
- Equipment
 - 1350 Company Tractors
 - 300 Contract Carriers & Owner Operators
 - 5000 Trailers (Dry van & Refrigerated)
- Operations
 - 2200 Employees
 - 5 Terminals
 - Operate in 48 states
 - Approximate 180 million miles a year

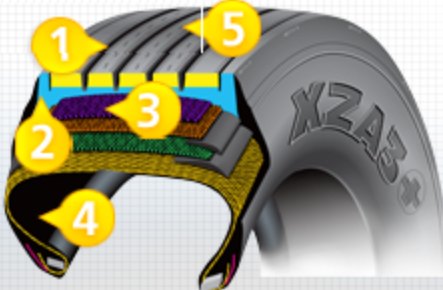
EQUIPMENT INNOVATION

- Average Tractor Age – 2 Years
 - Freightliner
 - Kenworth
- Engines In Fleet
 - 100 – EPA 2004 Exhaust Gas Recirculation “EGR”
 - 104 – EPA 2007 EGR with Diesel Particulate Filter “DPF”
 - 1146 – EPA 2010 – 2013 Selective Catalytic Reduction “SCR” / Diesel Exhaust Fluid “DEF”
- New engine technology
 - 3% fuel economy improvement on each engine model year change

EQUIPMENT INNOVATION

- Tires – All tire spec'd and purchased for the fleet are Smartway compliant:
 - Low rolling resistance tire improves fuel efficiency by 3%
 - IDC continually evaluates tires for tread life, drivers satisfaction and measures fuel efficiencies

[ENLARGE IMAGE](#)



3/4 VIEW
CUTAWAY

OVERVIEW **FEATURES & BENEFITS** SPECIFICATIONS LOAD & PRESSURE

- 1** Even Wear To The End - Defend against the onset of irregular wear with directional miniature sipes in the groove walls (directional to half life)
- 2** Legendary Tread Life - Get more mileage without compromising fuel efficiency with a Patent Pending Dual Compound Tread
- 3** Excellent Casing Protection - Protect the casing from bruising and penetrations due to a Full-width, Elastic Protector Ply
- 4** Maximum Retreadability - Fight casing fatigue with an Enhanced Inner Liner
- 5** Optimum Handling and Responsiveness - with a Wide, Flat Tread

EQUIPMENT INNOVATION

- Tractors & Trailers are spec'd with the environment in mind:
 - Aero dynamic fuel tank skirts
 - Cab extenders
 - Integral antenna's
 - Greaseless 5th wheels
 - Shore power (Reduce Idle Time)
 - 5 minute idle shut down
 - Ambient air temp idle controls (No engine idle allowed between 27 and 70 degrees)
 - Fuel efficient Smartway tires

EQUIPMENT INNOVATION

■ Trailers

- Aero Dynamic belly skirts 3%
- Low rolling resistance new and retread tires
- Automatic tire inflation system
- Composite material (Reduce weight)

■ Refrigerated Trailers

- 150 New refrigerated trailers
 - Evergreen CARB Compliant 2013 emission regulation engines
 - 3000 hour engine oil drain interval vs. 2000 hours
 - Lower fuel consumption by setting accurate set-points and modes remotely
 - Reduced environmental impact due to less reefer idling

EQUIPMENT INNOVATION

SmartWay Strategies *Costs vs. Fuel Savings*

Trailer Side Fairings
\$1,450 - \$2,500
Saves 7%

Trailer Mounted Gap Reducers
\$700 - \$1,100
Saves 2%

Smart Way Approved
Tractor Cap
\$1,300 differential cost
Saves 5%

2010 Engine
\$9,000 Plus Model Year
Escalator - more than 2007
compliant engine
85% less PM than 2006MY
85% less NO_x than 2009MY

Trailer Boat Tail
\$2,000 - \$3,000
Saves 5%

Low Rolling
Resistance Tires
\$2,500 Trailer (2%)
\$3,000 Tractor (2%)
Saves 4%

Idle Reduction
Equipment (APU's)
\$6,000 - \$15,000
Saves 8%

Fuel Tank Side Fairings
\$1,700 - \$2,100
Saves 1%

Diesel Exhaust Fluid
\$.01 CPM
Burn 2 gallons DEF
per 100 gallon/diesel
CPG = \$3.00

Aero Mirror & Bumper
\$325 differential cost
Saves 2%



MAINTENANCE & PARTS

- Partnered with recycled engine oil supplier. Recycled engine oil is used for all oil changes completed at IDC shops
 - Approximate 48,000 gallons of engine oil used annually
- Anti-Freeze is recycled and reused
- Used engine oil picked up by recycler
- Vinyl mattresses in sleeper bunks
- Removed aerosol cans from our shop (Use sure shots dispensers for brake clean and penetrating oil)
- Charging stations for Technicians to recharge flash lights & tools
- Installed spare tire racks on all tractors, review all removed tires for retread or scrap

OPERATIONS & FACILITIES

- **Operations – All tractors equipped with mobile communications & GPS tracking**
 - Reduce out of route miles
 - Improve tractor velocity, reduce wait time between loads
 - Monitor fuel economy by tractor and driver
- **Facilities**
 - Recycle bins throughout facility for paper, aluminum cans and plastic water bottles
 - Energy efficient lighting in office space and shops
 - Promote car pooling

CONTINUAL IMPROVEMENT

■ What's Next

- Evaluate automated transmissions
- Continue to upgrade and install energy efficient lighting in all terminals
- Evaluate auxiliary power unit (APU) to reduce tractor idle time
- Evaluate new technology engines. Fuel efficiency and extended oil drain intervals

SAFETY

Interstate is a “Safety First” company. Starting in 2011 decision was made to equipped all tractors with the following safety devices to save lives and reduce accidents:

- Electronic roll stability
- Blind side collision detectors
- Collision avoidance systems
- Adaptive cruise control

Thank You

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