

The New Hyster S/H 80-120FT vs. The Competition



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THE THREE DIMENSIONS



Hyster S/H80FT vs. Toyota 7FGCU/FGU35



Hyster

- Yearly savings of \$2,477 with
 - Auto Deceleration. Standard with DuraMatch
 - Wet disc brakes. Standard on H100-120FT; optional on H80-90FT
- Wet disc brakes
 - Eliminate brake lining replacements
 - Reduce tire failure induced by brake overheating
- Automatic electronic inching



Toyota

- No wet disc brake option
- Dry drum brakes only
- CHPS Design
 - Centralized Hydraulic Power-Assist System
 - Single hydraulic pump for lift, tilt, side shift, steering and brakes

Hyster Advantage – reduced costs; increased uptime.

DEPENDABILITY

Cooling System

Hyster

- Heavy-duty anti-clog radiator or Combi-Cooler
- Lint screen option
- Eight blade metal fan
- 14" X 27" opening in counterweight
- Serpentine drive belt

Toyota

- Rubber mounted "high efficiency" serpentine radiator with lint screen
- "Box fin" radiator option
- Six blade plastic fan
- 10" x 24" opening in counterweight
- Puller fan arrangement in the counterweight
- Fan drive under the radiator with belt inside the counterweight

Hyster Advantage – runs cooler; more uptime.

DEPENDABILITY

Engine

Hyster

- **GM 4.3L LPG**
 - 98 hp
 - 225 ft-lb torque
 - Severe duty engine
 - Multi-port fuel injection
- **Cummins 4.5L I5 Diesel**
 - 500 hr service interval
 - 78 hp
 - 225 ft-lb torque

Toyota

- **GM 4.3L LPG, Gas or Dual Fuel**
 - 92 hp
 - 220 ft-lb torque
 - Throttle body injection
 - \$400 "Premium" engine option
- **Toyota 13Z 4.6L I6 Diesel**
 - 76 hp
 - 192 ft-lb torque

Hyster Advantage – more durable, fuel efficient.

COST OF OPERATIONS

Wet Disc Brakes

Hyster

- Oil cooled wet disc brake
 - Service life many times longer than conventional drum brakes
 - System is sealed and oil is cooled and filtered to extend brake and differential life
 - Eliminates periodic adjustments
 - Lowers pedal effort
 - Eliminates brake fade and squeal
 - Reduces tire failures caused by brake overheating
- Can save the owner \$4000 - \$7000 in the first 10,000 hours of service

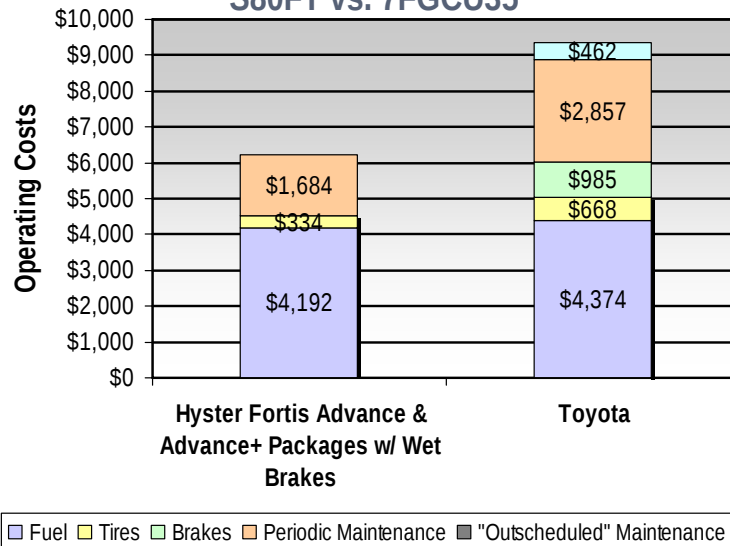
Toyota

- No wet disc brake option
- Common hydraulic system for the brake, hydraulic component, and the steering circuits

Hyster Advantage – reduced costs, more uptime.

COST OF OPERATIONS

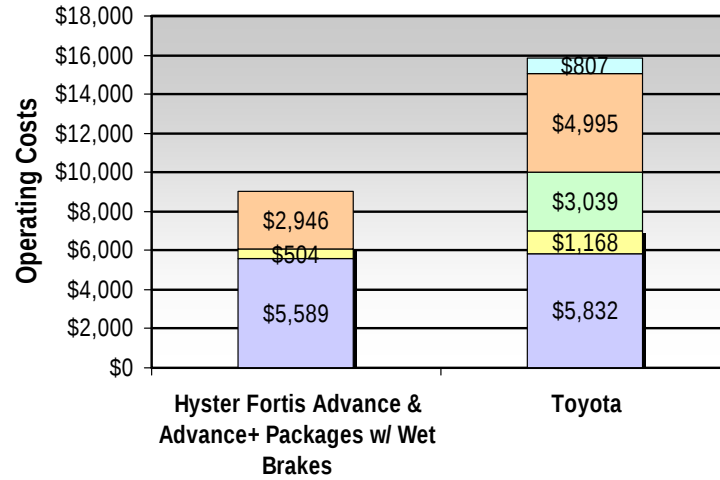
S80FT vs. 7FGCU35



Medium-Duty Application

COST OF OPERATIONS

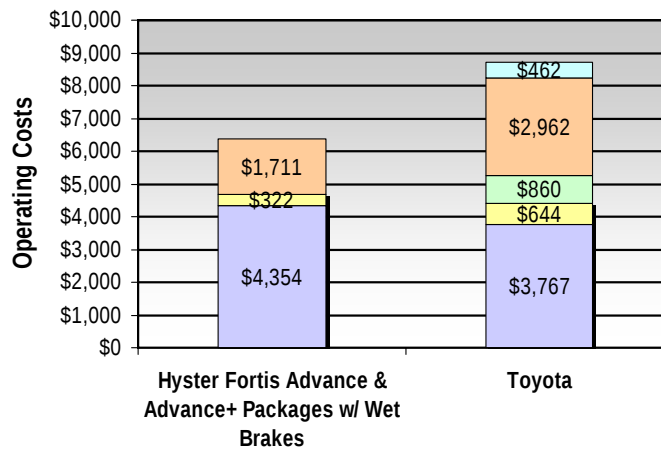
S80FT vs. 7FGCU35



Heavy-Duty Application

COST OF OPERATIONS

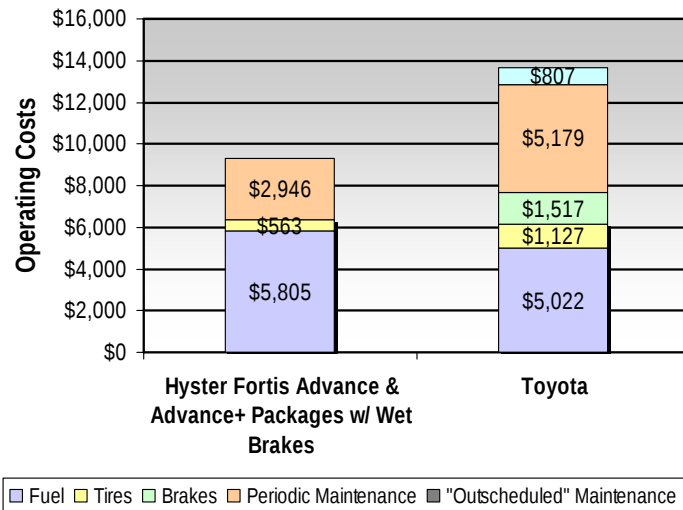
H80FT vs. 7FGU35



Medium-Duty Application

COST OF OPERATIONS

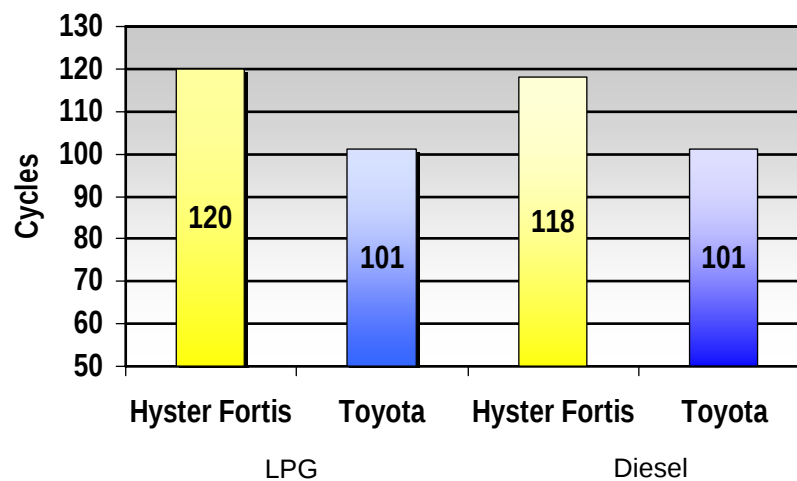
H80FT vs. 7FGU35



Heavy-Duty Application

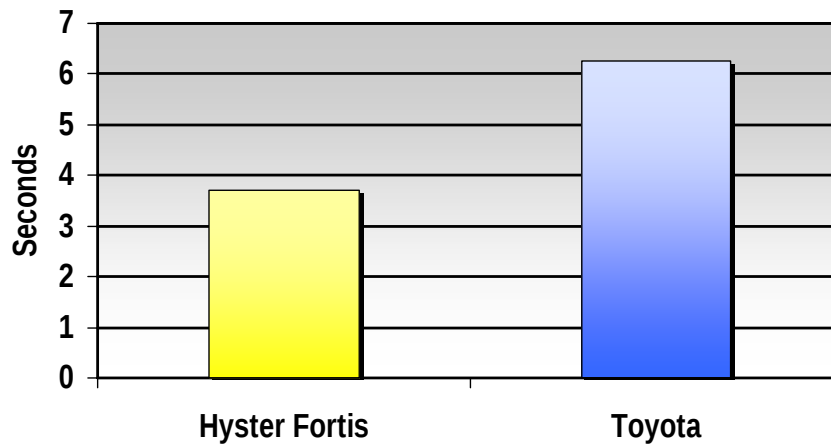
PRODUCTIVITY

Lift Speed (with Rated Load)



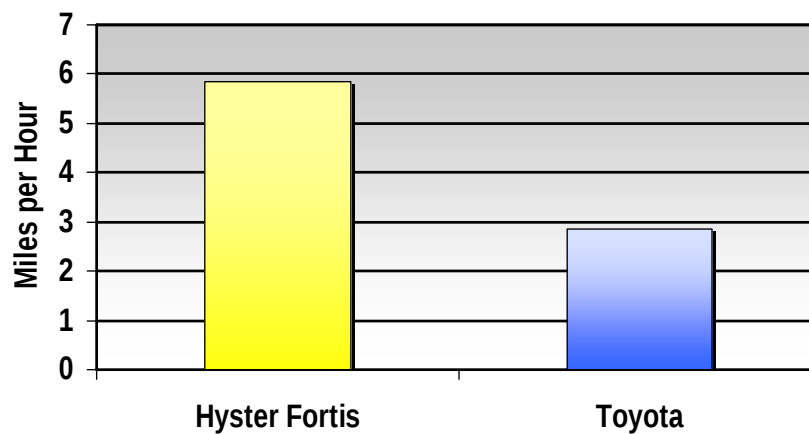
PRODUCTIVITY

Time to Reach 10 MPH (Loaded)



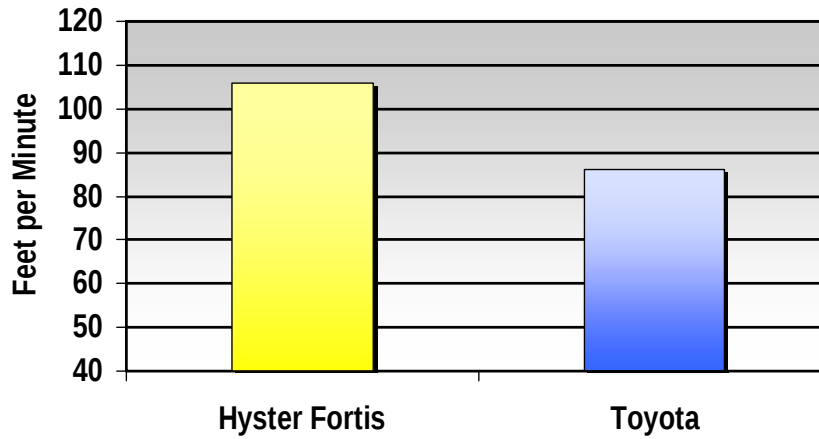
PRODUCTIVITY

Loaded Travel Speed on 15% Grade



PRODUCTIVITY

Loaded Lift Speeds



ERGONOMICS

Auto Deceleration

Hyster

- Standard on Fortis Advance and Advance+
- Slows the truck when accelerator pedal is released
- Reduces frequency of brake pedal application by up to 50%
- Extends brake life

Toyota

- Not available

Hyster Advantage – operator comfort, ease of operation.

ERGONOMICS

Auto Speed Hydraulics

Hyster

- Standard on Fortis Advance+
- Allows independent control of hydraulic speeds
- No operator inching required
- Eliminates the inch- brake pedal system

Toyota

- Not available

Hyster Advantage – easier to operate; more productive.

ERGONOMICS

Seats



- Hip restraints on seats
- 6.0" range of travel
- Semi-suspension
 - 2.4" vertical travel full suspension
 - 12° right & 5° left swivel seat



- Shoulder restraints on seats
- 4.75" range of travel
- Semi-suspension
 - 12° swivel seat Optional

Hyster Advantage – hip restraints provide secure operator position and less restrictions.

SERVICEABILITY

Access



- Cowl-to-Counterweight access
- Easy access to daily checks
- 85° hood opening
- One piece mat and floor

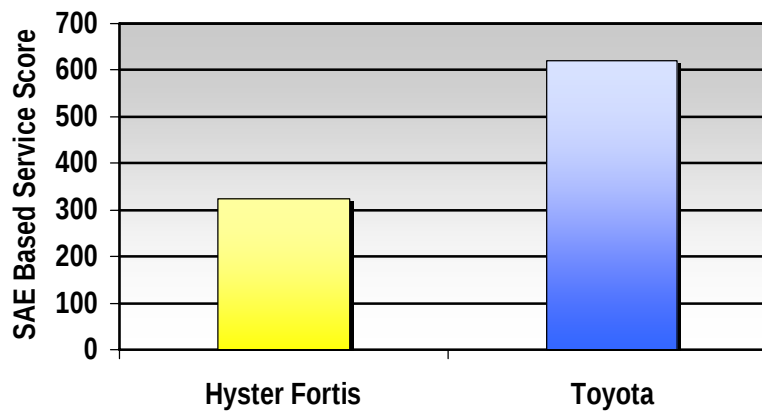


- Limited access
- Poor access for daily checks
- 60° hood opening
- One piece mat and floor

Hyster Advantage – easier to access, saves time.

SERVICEABILITY

Easiest Serviceability (lower score is best)

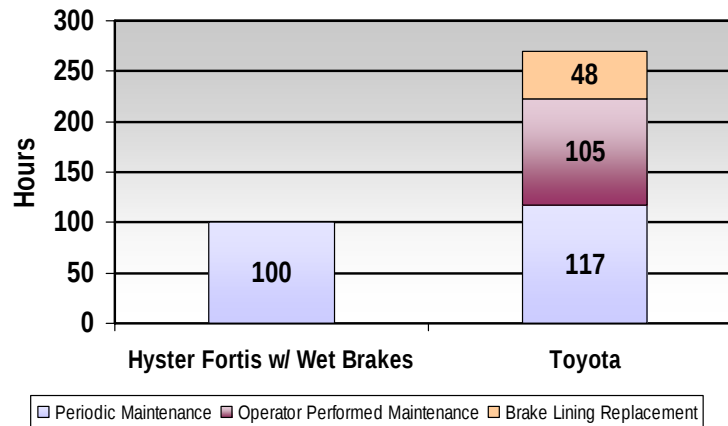


Effort
Location
Ease to Perform

SERVICEABILITY

Periodic Maintenance Downtime

Periodic Maintenance Downtime Over 10,000 Operating Hours



Hyster Advantage – less maintenance required; more uptime.

“WOW” Comparison



Feature	S/H80FT	7FGCU/FGU 35
Planetary Drive Axle	Yes	Yes
Oil Cooled Wet Disc Brakes	Option	No
Paper Roll Special	Yes	No
Common Hydraulic System	No	Yes
Multi-Port Fuel Injection	Yes	No
Heavy-Duty Cooling	Option	No
E-Hydraulics	Option	No



THE THREE DIMENSIONS



Hyster S/H80FT vs. Cat GC/P40K



DEPENDABILITY

Brakes

Hyster

- Yearly savings of \$2,477 with
 - Auto Deceleration. Standard with DuraMatch
 - Wet disc brakes. Standard on H100-120FT; optional on H80-90FT
- Wet disc brakes
 - Eliminate brake lining replacements
 - Reduce tire failure induced by brake overheating
- Automatic electronic inching

Caterpillar

- No wet disc brake option
- Self-energizing drum brakes
- Vacuum assisted
 - Gas & LPG – Intake manifold vacuum
 - Diesel – Alternator driven vacuum pump
- Two pedal inch-brake system

Hyster Advantage – reduced costs; increased uptime.

DEPENDABILITY

Engine

Hyster

- GM 4.3L LPG
 - 98 hp
 - 225 ft-lb torque
 - Severe Duty Engine
 - Multi-port fuel injection
- Cummins 4.5L I5 Diesel
 - 500 hr service interval
 - 78 hp
 - 225 ft-lb torque

Caterpillar

- GM 4.3L
 - LP or Gas
 - 92 hp
 - 220 ft-lb torque
 - Throttle body injection
- Mitsubishi 5.0L S6S Diesel
 - 84 hp
 - 185 ft-lb torque

Hyster Advantage – more fuel efficient.

COST OF OPERATIONS

Wet Disc Brakes

Hyster

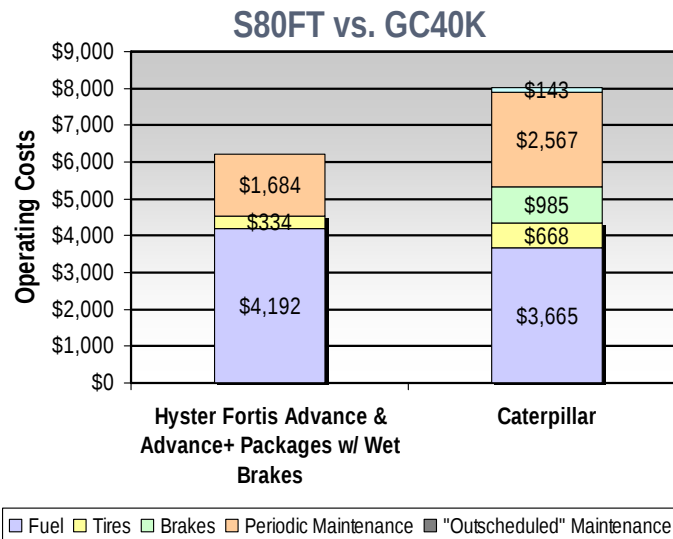
- Oil cooled wet disc brake
 - Service life many times longer than conventional drum brakes
 - System is sealed and oil is cooled and filtered to extend brake and differential life
 - Eliminates periodic adjustments
 - Lowers pedal effort
 - Eliminates brake fade and squeal
 - Reduces tire failures caused by brake overheating
- Can save the owner \$4000 - \$7000 in the first 10,000 hours of service

Caterpillar

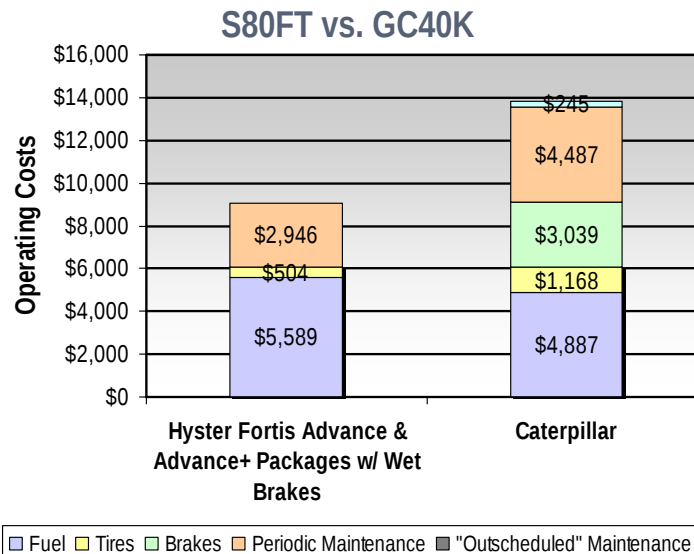
- No wet brake option
- Vacuum assisted drum brakes only

Hyster Advantage – reduced costs, more uptime.

COST OF OPERATIONS

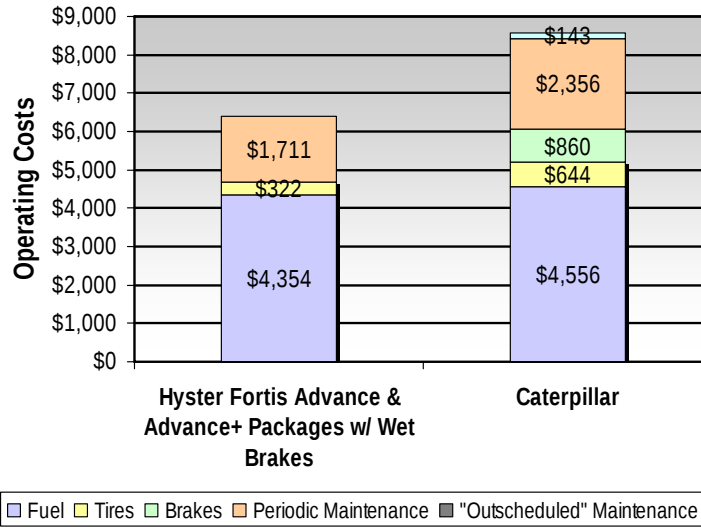


COST OF OPERATIONS



COST OF OPERATIONS

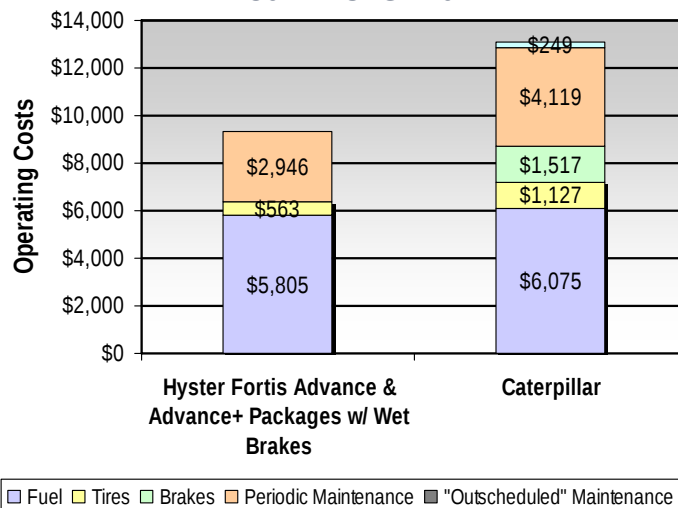
H80FT vs. GP40K



Medium-Duty Application

COST OF OPERATIONS

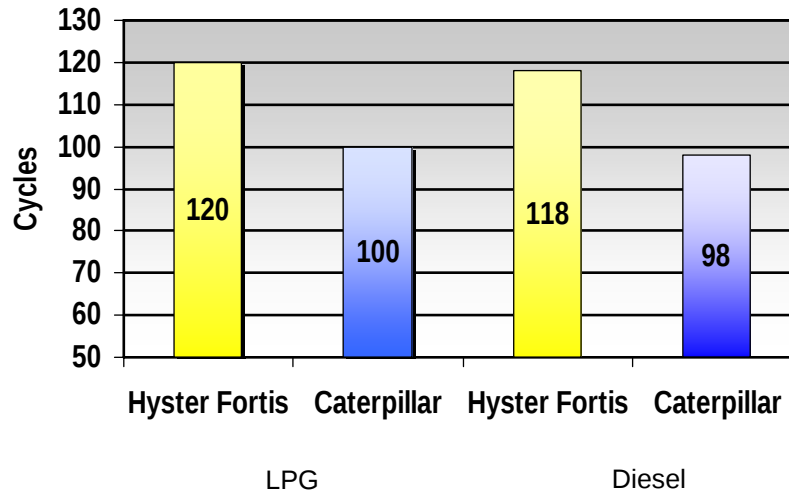
H80FT vs. GP40K



Heavy-Duty Application

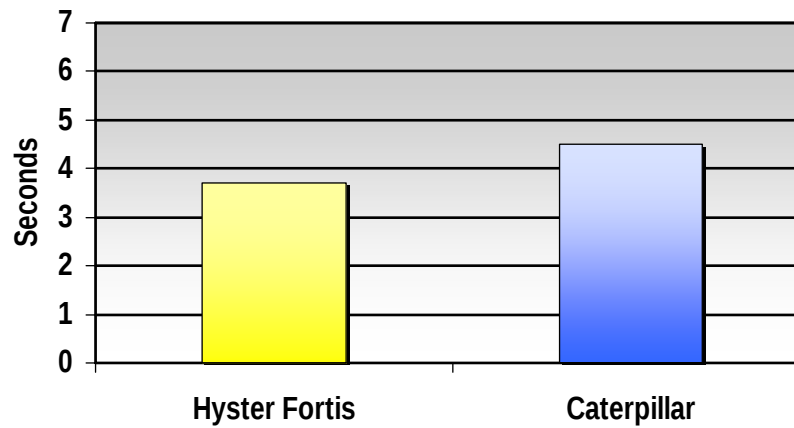
PRODUCTIVITY

Lift Speed (with Rated Load)



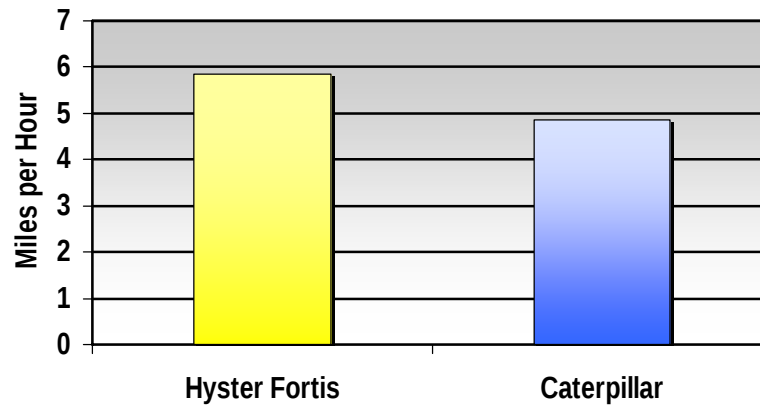
PRODUCTIVITY

Time to Reach 10 MPH (Loaded)



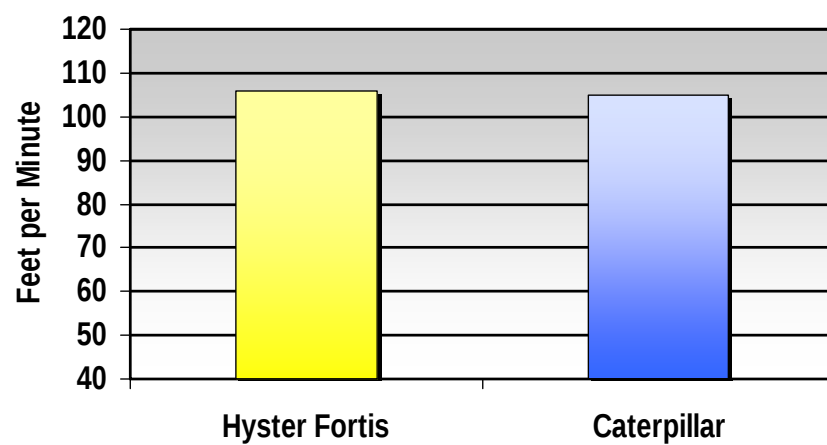
PRODUCTIVITY

Loaded Travel Speed on 15% Grade



PRODUCTIVITY

Loaded Lift Speeds



ERGONOMICS

Auto Deceleration

Hyster

- Standard on Fortis Advance and Advance+
- Slows the truck when accelerator pedal is released
- Reduces frequency of brake pedal application by up to 50%
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Caterpillar

- Not available

Hyster Advantage – operator comfort, ease of operation.

ERGONOMICS

Auto Speed Hydraulics

Hyster

- Standard on Fortis Advance+
- Allows independent control of hydraulic speeds
- No operator inching required
- Eliminates the inch- brake pedal system

Caterpillar

- Not available

Hyster Advantage – easier to operate; more productive.

ERGONOMICS

Seats



- Semi-suspension
 - 2.4" vertical travel full suspension
 - 12° right & 5° left swivel seat

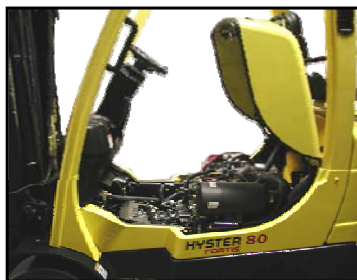


- Semi-suspension
- No swivel seat option

Hyster Advantage – allows for greater visibility in reverse travel.

SERVICEABILITY

Access



- Cowl-to-Counterweight access
- Easy access to daily checks
- 85° hood opening
- One piece mat and floor

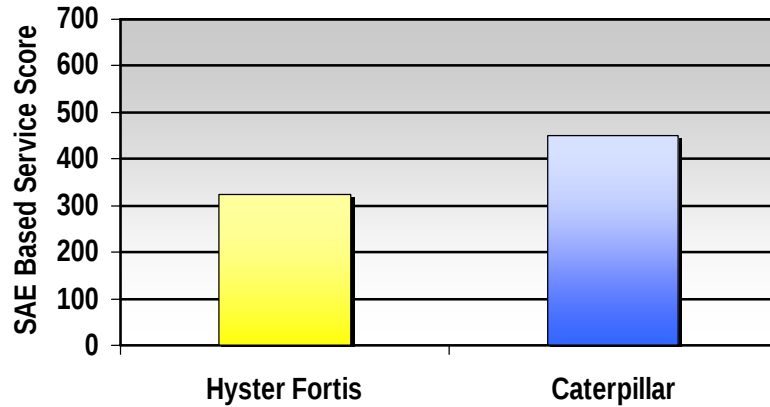


- Limited access
- Poor access for daily checks
- 70° hood opening
- One piece mat and three piece floor

Hyster Advantage – easier to access, saves time.

SERVICEABILITY

Easiest Serviceability (lower score is best)

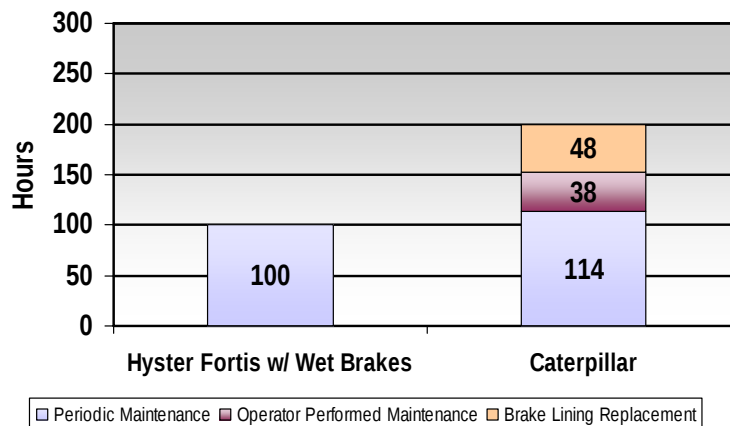


Effort
Location
Ease to Perform

SERVICEABILITY

Periodic Maintenance Downtime

Periodic Maintenance Downtime Over 10,000 Operating Hours



Hyster Advantage – less maintenance required; more uptime.

“WOW” Comparison



Feature	S/H80FT	GC/P40K
Planetary Drive Axle	Yes	No
Oil Cooled Wet Disc Brakes	Yes	No
Paper Roll Special	Yes	No
Stability Control	Yes	No
Mast Control	Yes	No
Common Hydraulic System	No	No
Multi-Port Fuel Injection	Yes	No
Heavy-Duty Cooling	Option	Yes
E-Hydraulics	Option	No

