Issued: 09/2011 Catalog #: CQ-8181-11 Mfg Code: HFF



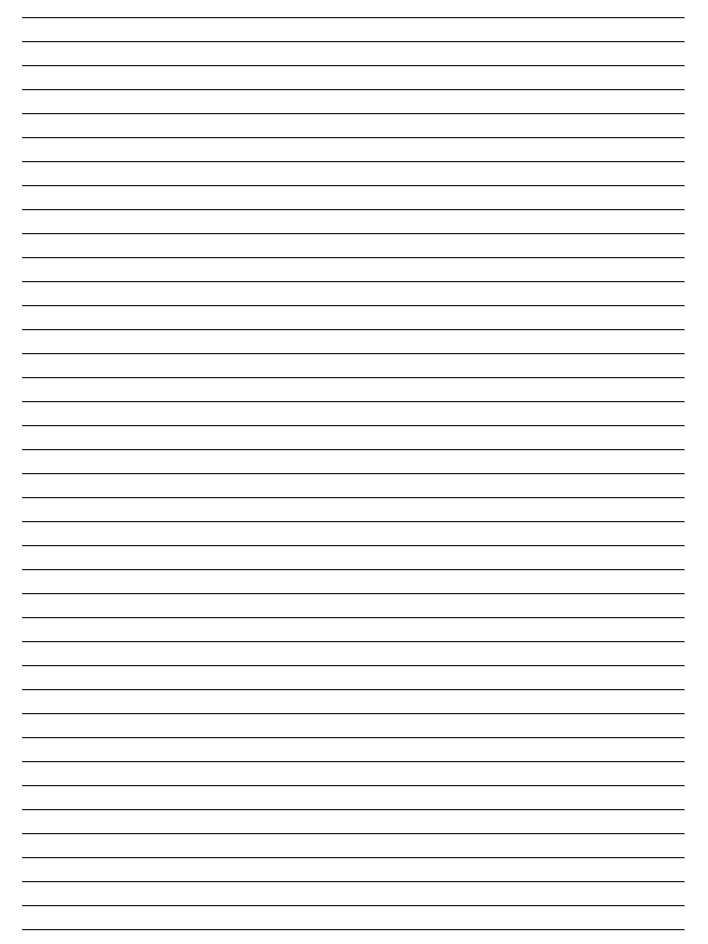


Fleet Solutions - Brake Shoe Catalog





Notes:
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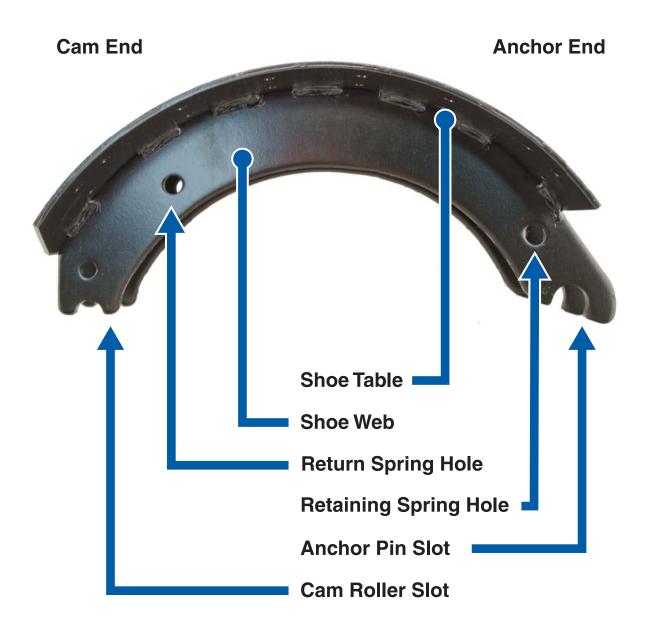
### Anatomy of a Brake Shoe

Shoe Web: Shoes may have one or two webs; the web is the rail that the shoe table is welded to.

**Shoe Table:** The table is a flat arched metal plate welded to the web. There are rivet holes through the table for fastening the lining to the table.

Cam End: The end of the web that holds the roller which rides on the cam shaft.

Anchor End: The end of the shoe that is anchored to the brake spider with the anchor pin.



### **Brake Remanufacturing Quality**

#### **Value Added Quality**

Haldex is determined to continuously provide the highest quality remanufactured brake shoes in the industry. A primary point of emphasis is adding additional, meaningful quality while minimizing the cost impact to our customers. For this reason as an example, Haldex will not "coin" brake shoes. The extra costs associated with coining do not justify the short term "benefit" of selling a brake shoe that is beyond specifications and beyond its useful life. Haldex's answer to those who promote "coining" is simple..."scrapping".

#### Over 30 Quality Checkpoints and Inspections Per Shoe:

- Table Wear & Damage
- Web Damage
- Anchor & Roller End Wear & Damage
- Shoe Stretch & Collapse
- Elongated Rivet Holes
- Coating Coverage
- Lining Fit/Rivet Torque



#### **Process Fundamentals**

**The Haldex Way - Quality Inspection Points** 





A liberal core program protects your core investment.



Shoe quality begins at core check-in. Out of spec shoes are scrapped.



Automatic deliners prevent excessive table damage, protecting shoe quality at a higher level.



Individual shot blasting ensures 100% removal of external contaminants - necessary for reliable coating coverage.



Extensive investments in coatings and curing processes ensures maximum protection against corrosion.



Rivet torque specifications are critically maintained to ensure reliable lining to shoe attachment.



Haldex provides packaging options to fit the needs of your business.

### **Brake Lining Options**



#### 20,000 lbs. Brake Lining

Brake Lining	Haldex GN	Haldex GR
Lining Rated @	20,000 lbs	20,000 lbs
Temperature	625°	775°
Fade Resistance	Average	Excellent
Recovery	Average	Excellent
Lining Wear	Average	Excellent

#### **Brake Lining Performance - Know Your Zone**

### GREENZone

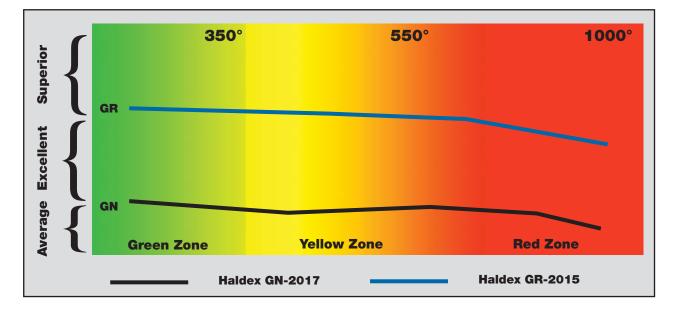
- Lighter loads flatter roads
- Low stress on the brakes
- Brake temperatures generally stay below 350°



- Coast to coast operations
- Variable load conditions
- Moderate stress on the brakes
- Brake temperature vary up to 650° due to the variety of terrain and loads encountered



- Extreme loads extreme stopping
- High stress on the brakes
- Brake temperatures may approach 1000° due to the extreme conditions and variability of the application environment



Brake linings are not create equal. CARQUEST has a complete offering of brake lining options so you can make the best choice for your unique application.

The chart above depicts overall performance of the CARQUEST brake lining options at a variety of temperature ranges to help simplify the process of choosing the right lining for your application.

### **Brake Lining Options**



#### 23,000 lbs. Brake Lining

Brake Lining	CARQUEST CB	Haldex GG	Haldex GC
Lining Rated @	23,000 lbs	23,000 lbs	23,000 lbs
Temperature	700°	975°	1000°
Fade Resistance	Excellent	Superior	Superior
Recovery	Excellent	Superior	Superior
Lining Wear	Excellent	Superior	Superior

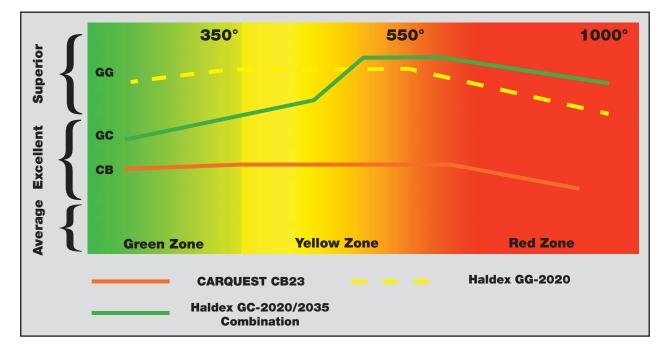
#### **Brake Lining Performance - Know Your Zone**

### GREENZone

- Lighter loads flatter roads
- Low stress on the brakes
- Brake temperatures generally stay below 350°
- YELLOWZone
- Coast to coast operations
- Variable load conditions
- Moderate stress on the brakes
  Brake temperature vary up to 650° due to the variety of terrain and loads encountered



- Extreme loads extreme stopping
- High stress on the brakes
- Brake temperatures may approach 1000° due to the extreme conditions and variability of the application environment



Brake linings are not created equal. CARQUEST has a complete offering of brake lining options so you can make the best choice for your unique application.

The chart above depicts overall performance of the CARQUEST brake lining options at a variety of temperature ranges to help simplify the process of choosing the right lining for your application.

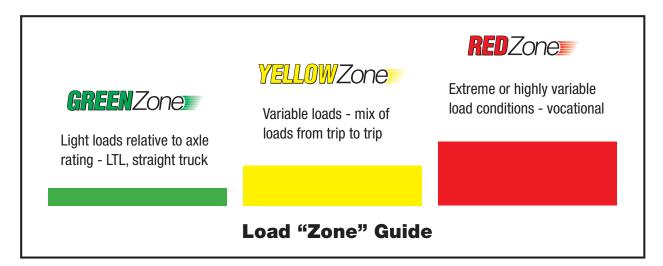
### **Brake Lining Application**

#### **Choosing the Proper Brake Lining**

The primary factors to consider when choosing a brake lining are:

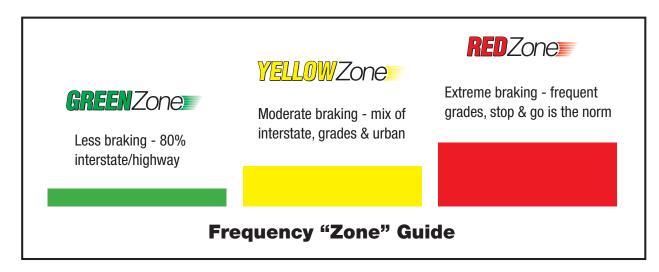
#### 1. Load

If loads are typically light relative to the vehicles combined axle weight rating, generally brake temperatures will stay towards the lower end of the temperature spectrum (<400°). Highly variable loads mean that for at least part of the time, loads may be up to or above the vehicle's axle weight rating. To ensure maximum braking performance, a brake lining must be able to perform at a higher temperature (> 550° when heavy), however not be "too much" for those times when the vehicle is loaded lighter (<400°). Extreme load conditions are going to generate high temperatures most of the time, calling for upgraded linings to maintain top-notch braking performance (up to 1000°).



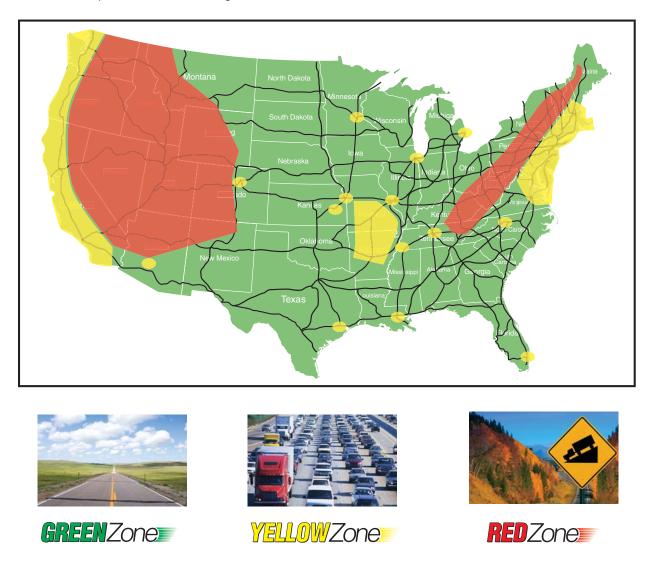
#### 2. Braking Frequency

Are you touching the brakes once every 60 miles (interstate driving) or is the vehicle constantly subjected to stop-and-go driving (refuse pick-up)? Stopping frequency is a major influence on a brake's temperature.



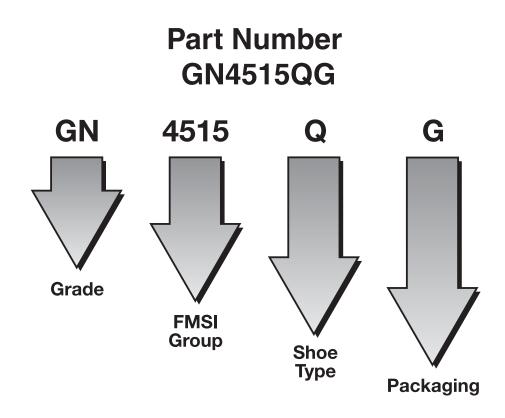
3. Road

- Flat roads (Green Zone) generate less demand on your brakes keeping temperatures lower.
- Variable road conditions, such as coast-to-coast operations means that the vehicle will see the complete spectrum of application environments on any given trip. The lining must be able to withstand the extreme situations, yet not be "over-blown" for those times when flat roads and interstate speeds prevail.
- Off road and continuous steep grade environments means brake temperatures will stay elevated for extended periods of time. A lining's resistance to brake fade is critical in these situations.



High Performance Key

The key to successfully choosing a brake lining that will be the safest choice, maximize stopping ability and provide the best wear characteristics is to take a critical view of the "application environment" of the vehicle – Load, Road and Frequency – and choose a lining that is well suited to meet these unique demands. All 3 elements must be considered and all three are equally as important as the other. For instance, if you make a choice solely based on load, by discounting the effects of braking frequency, it is possible to inadvertently "under-brake" the vehicle which could lead to increased stopping distances, excessive brake fade and below average wear. Likewise, it would be counter-productive to choose a high temperature lining for an application where temperatures never exceed 350°.



#### **Grades of Friction Available**

- CB 23,000 lb. CARQUEST Premium
- GG 23,000 lb. Haldex Premium
- GC 23,000 lb. Haldex Combination
- GR 20,000 lb. Haldex Premium
- GN 20,000 lb. Haldex Standard
- GW 23,000 lb. Haldex Wedge Brake

#### **FMSI Groups**

- Eaton E or Meritor Q 15x4" Steer Axle 1308
- 1443 Eaton ES 15x4" Steer Axle
- Eaton 16 1/2" x 7" Truck or Trailer Axle 4311
- 4515 Meritor Q 16 1/2" x 7" Truck or Trailer Axle & Fruehauf Trailer Axle
- 4707 Meritor Q-Plus 16 1/2" x 7" Truck or Trailer Axle
- Eaton "ES" or "ES2" 16 1/2" x 7" Truck or Trailer Axle 4709
- 4725 Eaton "ES" or "ES2" 16 1/2" x 6" Steer Axle
- 4726 Eaton "ES" or "ES2" 16 1/2" x 8 5/8" Truck Axle

#### **Shoe Types**

- **Packaging**
- F Eaton E Standard
- ES2 Eaton ES 2nd Generation
- Q Meritor Quick Change or Q-Plus
- ХЗ Fruehauf Trailer XEM3

- Gripper Kit, 2 shoes boxed with brake hardware
- Reline shoe (single shoe)

Note: FMSI Groups and Shoe Types listed are the most popular in the aftermarket, there are many other options. For more see the HFF catalog.

G

R



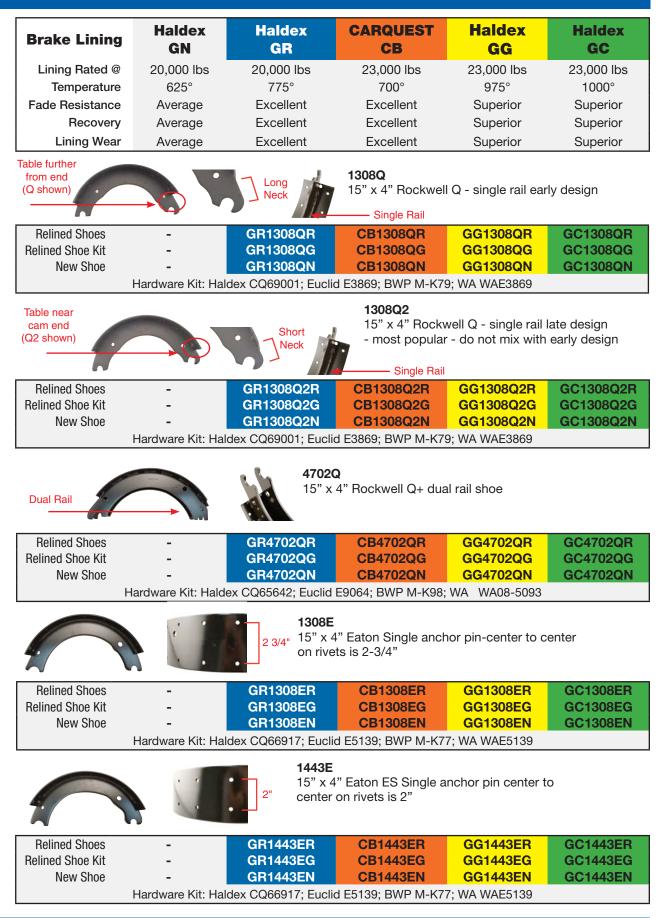


## **15" Brakes**

## **Most Popular Applications**



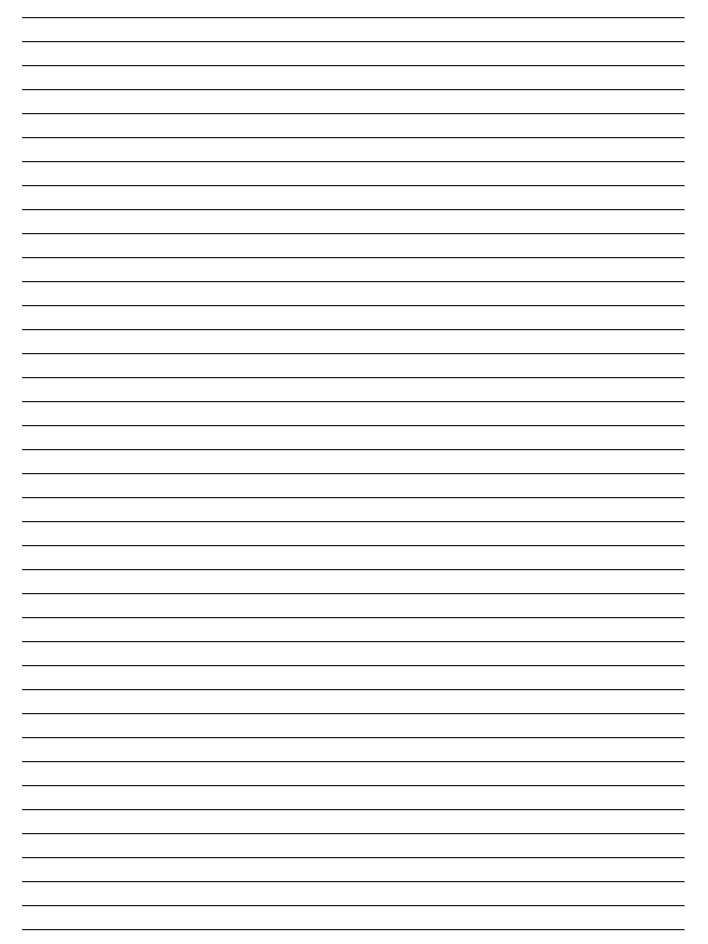
### 15" Drum Diameter - Most Popular Applications



### 15" Drum Diameter - Extended Application Coverage

Base Shoe Number	Shoe Size	Description	
1245235R	15 X 3	Wagner Brake No Hole	
1245321R	15 X 3	Wagner Brake No Hole	
1279425R	15 X 3 1/2	Wagner Brake	
1279455R	15 X 3 1/2	Wagner Brake	
1280322R	15 X 3 1/2	Wagner With Hole	
1280463R	15 X 3 1/2	Wagner Brake	
1307TR	15 X 3 1/2	Arvin Meritor Front Axle Brake Pin Style	
1307WR	15 X 3 1/2	Arvin Meritor Front Axle Brake Pin Style	
4561BR	15 x 3 1/2	Bendix Wedge Brake	
4562BWR	15 x 3 1/2	Bendix Wedge Brake	
4562RWR	15 x 3 1/2	Arvin Meritor Wedge Brake	
1308426R	15 X 4	Wagner Front Axle Brake	
1308458R	15 X 4	Wagner Front Axle Brake	
1308512R	15 X 4	Wagner Front Axle Brake	
1308ER	15 X 4	Eaton Front Axle Single Pin	
1308Q2R	15 X 4	Arvin Meritor Front Axle Brake Quick Change Style	
1308QR	15 X 4	Arvin Meritor Front Axle Brake Quick Change Style	
1308TR	15 X 4	Arvin Meritor Front Axle Brake Pin Style	
1308WR	15 X 4	Arvin Meritor RSA Wedge Brake	
1443ER	15 X 4	Dana Spicer/Eaton Front Axle Brake Extended Service Design	
2032402R	15 X 4	Bendix	
203288R	15 X 4	Bendix	
2039299R	15 X 4	Bendix	
4693BR	15 X 4	Bendix Brazilian Brake for Ford Cargo Series	
4693DR	15 X 4	Dana Spicer/Eaton HA Series	
4702QR	15 X 4	Arvin Meritor Q+ Dual Rail Shoe	
4729DQR	15 X 4	Dana Spicer/Eaton Heavy Axle	
4647401R	15 X 4	Kelsey Hayes	
4646400R	15 X 5	Kelsey Hayes	
4703QR	15 X 5	Arvin Meritor Q+ Dual Rail Shoe	
4594TR	15 x 6	Wagner Brake	
4704QR	15 x 6	Arvin Meritor Q+ Dual Rail Shoe	
4716ESR	15 x 6	Dana Spicer/Eaton Reduced Envelope	
4595TR	15 x 7	Wagner Brake	
4710QR	15 X 8 5/8	Arvin Meritor Q+ Dual Rail Shoe	
4710QR2	15 X 8 5/8	Arvin Meritor Q+ Dual Rail Shoe	
4717ESR	15 x 8-5/8	Dana Spicer/Eaton Reduced Envelope	

Notes:
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# 16<sup>1</sup>/<sub>2</sub> " Brakes

### **Most Popular Applications**



### 161/2" Drum Diameter - Most Popular Applications

Brake Lining	Haldex GN	Haldex GR	CARQUEST CB	Haldex GG	Haldex GC
Lining Rated @	20,000 lbs	20,000 lbs	23,000 lbs	23,000 lbs	23,000 lbs
Temperature	625°	775°	700°	975°	1000°
Fade Resistance	Average	Excellent	Excellent	Superior	Superior
Recovery	Average	Excellent	Excellent	Superior	Superior
Lining Wear	Average	Excellent	Excellent	Superior	Superior

### **Meritor/Rockwell Style**



4515Q - Meritor Q - 16.5" x 7" Arvin Meritor "Q" quick change design

Relined Shoes	GN4515QR	GR4515QR	CB4515QR	GG4515QR	GC4515QR	
Relined Shoe Kit	GN4515QG	GR4515QG	CB4515QG	<b>GG4515QG</b>	GC4515QG	
New Shoe	GN4515QN	GR4515QN	<b>CB4515QN</b>	<b>GG4515QN</b>	GC4515QN	
Hardware Kit: Haldex CQ66867; Euclid E2769SHD; BWP M-K39; WA WA2769SHD						

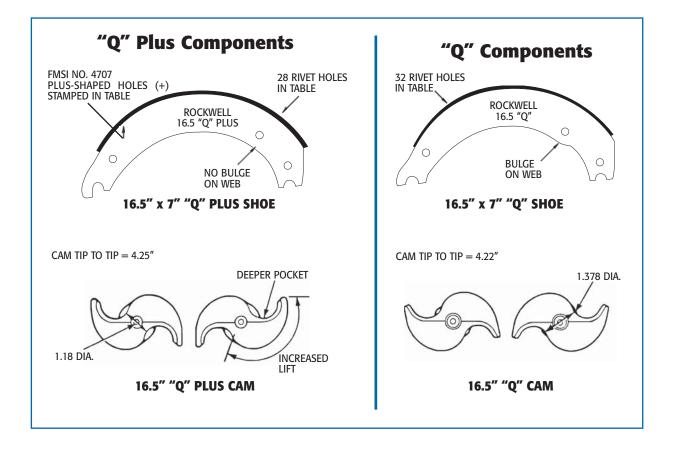


4707Q+ - Meritor Q+ - 16.5" x 7" Arvin Meritor "Q" extended service quick change design

Relined Shoes	GN4707QR	GR4707QR	CB4707QR	GG4707QR	GC4707QR	
Relined Shoe Kit	GN4707QG	GR4707QG	CB4707QG	GG4707QG	GC4707QG	
New Shoe	GN4707QN	GR4707QN	CB4707QN	GG4707QN	GC4707QN	
Hardware Kit: Haldex CQ66867; Euclid E2769SHD; BWP M-K39; WA WA2769SHD						

### Meritor Q vs. Q+ Identification Tips - Next Page

#### **Meritor Q vs Q+ Identification Tips**



All "Q" Plus Brakes have the following features that are different from "Q" Brakes:

- Thicker Linings
- High Lift Camshaft
- Offers longer service life

16.5" "Q" style brakes manufactured before 1994 can be retrofitted to the "Q" Plus style by changing the shoe and lining, the shoe return spring and the camshaft. Since 1994, the High Rise "Q" Plus camshaft design has been standard in all 16.5" "Q" Series Brakes. In this case, only the shoe/lining assembly and the return spring must be changed in order to go from the "Q" to the "Q" Plus Series Brake.

### 16<sup>1</sup>/<sub>2</sub>" Drum Diameter - Most Popular Applications

Brake Lining	Haldex GN	Haldex GR	CARQUEST CB	Haldex GG	Haldex GC
Lining Rated @	20,000 lbs	20,000 lbs	23,000 lbs	23,000 lbs	23,000 lbs
Temperature	625°	775°	700°	975°	1000°
Fade Resistance	Average	Excellent	Excellent	Superior	Superior
Recovery	Average	Excellent	Excellent	Superior	Superior
Lining Wear	Average	Excellent	Excellent	Superior	Superior

### **Meritor/Rockwell Style**



**4720Q+** 16.5" x 5" Arvin Meritor "Q+" Extended Service Quick Change

Relined Shoes	-	GR4720QR	CB4720QR	GG4720QR	GC4720QR	
Relined Shoe Kit	-	GR4720QG	CB4720QG	<b>GG4720QG</b>	GC4720QG	
New Shoe	-	GR4720QN	<b>CB4720QN</b>	<b>GG4720QN</b>	GC4720QN	
Hardware Kit: Haldex CQ66867; Euclid E2769SHD; BWP M-K39; WA WA2769SHD						



4715Q+

16.5" x 6" Arvin Meritor "Q+" Extended Service Quick Change

Relined Shoes	-	GR4715QR	CB4715QR	GG4715QR	GC4715QR	
Relined Shoe Kit	-	GR4715QG	CB4715QG	<b>GG4715QG</b>	GC4715QG	
New Shoe	-	GR4715QN	<b>CB4715QN</b>	<b>GG4715QN</b>	GC4715QN	
Hardware Kit: Haldex CQ66867; Euclid E2769SHD; BWP M-K39; WA WA2769SHD						



#### **4718Q+** 16.5" x 8" Arvin Meritor "Q+" Extended Service Quick Change

Relined Shoes	-	GR4718QR	CB4718QR	GG4718QR	GC4718QR		
Relined Shoe Kit	-	GR4718QG	CB4718QG	GG4718QG	GC4718QG		
New Shoe	-	GR4718QN	<b>CB4718QN</b>	<b>GG4718QN</b>	GC4718QN		
Hardware Kit: Haldex CQ66867; Euclid E2769SHD; BWP M-K39; WA WA2769SHD							



#### 4711Q+

16.5" x 8 5/8" Arvin Meritor "Q+" Extended Service Quick Change

Relined Shoes	-	GR4711QR	CB4711QR	GG4711QR	GC4711QR		
Relined Shoe Kit	-	GR4711QG	CB4711QG	GG4711QG	GC4711QG		
New Shoe	-	GR4711QN	CB4711QN	GG4711QN	GC4711QN		
Hardware Kit: Haldex CQ66867; Euclid E2769SHD; BWP M-K39; WA WA2769SHD							

### 16½" Drum Diameter - Most Popular Applications

Brake Lining	Haldex GN	Haldex GR	CARQUEST CB	Haldex GG	Haldex GC
Lining Rated @	20,000 lbs	20,000 lbs	23,000 lbs	23,000 lbs	23,000 lbs
Temperature	625°	775°	700°	975°	1000°
Fade Resistance	Average	Excellent	Excellent	Superior	Superior
Recovery	Average	Excellent	Excellent	Superior	Superior
Lining Wear	Average	Excellent	Excellent	Superior	Superior

### **Meritor/Rockwell Style**



### 4515T Pin Style

16.5" x 7" Arvin Meritor Pin Style

Relined Shoes	GN4515TR	GR4515TR	CB4515TR	GG4515TR	GC4515TR		
Relined Shoe Kit	GN4515TG	GR4515TG	CB4515TG	GG4515TG	GC4515TG		
New Shoe	GN4515TN	GR4515TN	CB4515TN	GG4515TN	GC4515TN		
Hardware Kit: Haldex CQ67390; Euclid KIT-4HD; BWP M-K4; WA WA08-5053							

### **Fruehauf Style**



**4515X3** 16.5" x 7" Fruehauf XEM 3

Relined Shoes	GN4515X3R	GR4515X3R	CB4515X3R	GG4515X3R	GC4515X3R		
Relined Shoe Kit	GN4515X3G	GR4515X3G	CB4515X3G	GG4515X3G	GC4515X3G		
New Shoe	GN4515X3N	GR4515X3N	CB4515X3N	GG4515X3N	GC4515X3N		
Hardware Kit: Haldex CQ66914; Euclid E3710HD; BWP M-K42; WA WA3710SHD							

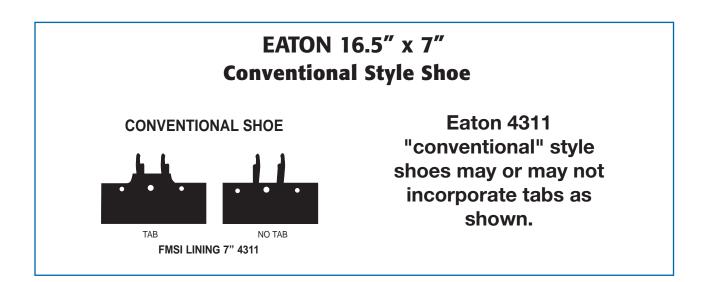
### 161/2" Drum Diameter - Most Popular Applications

Brake Lining	Haldex GN	Haldex GR	CARQUEST CB	Haldex GG	Haldex GC
Lining Rated @	20,000 lbs	20,000 lbs	23,000 lbs	23,000 lbs	23,000 lbs
Temperature	625°	775°	700°	975°	1000°
Fade Resistance	Average	Excellent	Excellent	Superior	Superior
Recovery	Average	Excellent	Excellent	Superior	Superior
Lining Wear	Average	Excellent	Excellent	Superior	Superior

### **Eaton/Dana Spicer Style**



Relined Shoes	GN4311ER	GR4311ER	CB4311ER	GG4311ER	GC4311ER		
Relined Shoe Kit	GN4311EG	GR4311EG	CB4311EG	GG4311EG	GC4311EG		
New Shoe	GN4311EN	GR4311EN	<b>CB4311EN</b>	GG4311EN	GC4311EN		
Hardware Kit: Haldex CQ67319; Euclid E1887AHD; BWP M-K10; WA WA1887ASHD							



The Eaton "ES" and "ESII" Extended Service 16.5" x 7" brake for drive and trailer axles is a completely redesigned brake from the standard single anchor pin type. To change from conventional to "ES" or "ESII" style, new brake shoes, hardware and camshafts are required.If "ES" or "ESII" brakes are changed back to conventional, the "ES" style camshafts can be used with the conventional style shoe and conventional shoe hardware.Even though changeover from the conventional style to the "ES" or "ESII" style is possible, each type of shoe has its own core group. Cores CANNOT be interchanged or upgraded as far as your core account is concerned.

### 16½" Drum Diameter - Most Popular Applications

Brake Lining	Haldex GN	Haldex GR	CARQUEST CB	Haldex GG	Haldex GC
Lining Rated @	20,000 lbs	20,000 lbs	23,000 lbs	23,000 lbs	23,000 lbs
Temperature	625°	775°	700°	975°	1000°
Fade Resistance	Average	Excellent	Excellent	Superior	Superior
Recovery	Average	Excellent	Excellent	Superior	Superior
Lining Wear	Average	Excellent	Excellent	Superior	Superior

### **Eaton/Dana Spicer Style**

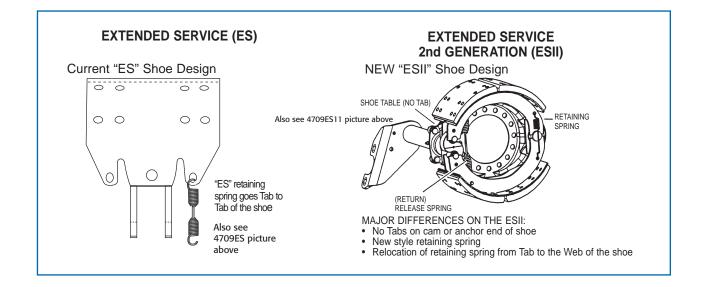


**4709ESII** 16.5" x 7" Eaton Extended Service 2nd Generation

Relined Shoes	GN4709ES2R	GR4709ES2R	CB4709ES2R	GG4709ES2R	GC4709ES2R		
Relined Shoe Kit	GN4709ES2G	GR4709ES2G	CB4709ES2G	GG4709ES2G	GC4709ES2G		
New Shoe	GN4709ES2N	GR4709ES2N	CB4709ES2N	GG4709ES2N	GC4709ES2N		
Hardware Kit: Haldex CQ65477; Euclid E10244; BWP M-K105; WA WAE 10244							



### Eaton ES vs. Eaton ESII Identification Tips



### 16<sup>1</sup>/<sub>2</sub>" Drum Diameter - Most Popular Applications

Brake Lining	Haldex GN	Haldex GR	CARQUEST CB	Haldex GG	Haldex GC
Lining Rated @	20,000 lbs	20,000 lbs	23,000 lbs	23,000 lbs	23,000 lbs
Temperature	625°	775°	700°	975°	1000°
Fade Resistance	Average	Excellent	Excellent	Superior	Superior
Recovery	Average	Excellent	Excellent	Superior	Superior
Lining Wear	Average	Excellent	Excellent	Superior	Superior

### **Eaton/Dana Spicer Style**



### 4719ES2

16.5" x 5" Eaton Extended Service 2nd Generation

Relined Shoes	-	GR4719ES2R	CB4719ES2R	GG4719ES2R	GC4719ES2R		
Relined Shoe Kit	-	GR4719ES2G	CB4719ES2G	GG4719ES2G	GC4719ES2G		
New Shoe	-	GR4719ES2N	CB4719ES2N	GG4719ES2N	GC4719ES2N		
Hardware Kit: Haldex CQ65445; Euclid E10760; MK113; WA WA08-5038							



#### 4725ES2

16.5" x 6" Eaton Extended Service 2nd Generation

Relined Shoes	-	GR4725ES2R	CB4725ES2R	GG4725ES2R	GC4725ES2R			
Relined Shoe Kit	-	GR4725ES2G	CB4725ES2G	GG4725ES2G	GC4725ES2G			
New Shoe	-	GR4725ES2N	CB4725ES2N	GG4725ES2N	GC4725ES2N			
	Hardware Kit: Haldex CQ65445; Euclid E10760; MK113; WA WAD-5038							



#### 4726ES2

16.5" x 8 5/8" Eaton Extended Service 2nd Generation

Relined Shoes	-	GR4726ES2R	CB4726ES2R	GG4726ES2R	GC4726ES2R
Relined Shoe Kit	-	GR4726ES2G	CB4726ES2G	GG4726ES2G	GC4726ES2G
New Shoe	-	GR4726ES2N	CB4726ES2N	GG4726ES2N	GC4726ES2N
Hardware Kit: Haldex CQ65477; Euclid E10244; BWP M-K105; WA WAE 10244					

### 16<sup>1</sup>/<sub>2</sub>" Drum Diameter - Extended Application Coverage

Base Shoe Number	Shoe Size	Description	
4549QR	16 1/2 X 4	Arvin Meritor Quick Change	
4549TR	16 1/2 X 4	Arvin Meritor Pin Style	
4223EHMR	16 1/2 X 5	Dana Spicer/Eaton EB Series High Mount	
4223EOR	16 1/2 X 5	Dana Spicer/Eaton EB Series Low Mount	
4223ER	16 1/2 X 5	Dana Spicer/Eaton EB Series Low Mount	
4524DQR	16 1/2 X 5	Dana Spicer FC Style	
4524QM2R	16 1/2 X 5	Arvin Meritor Q Style Mainly Used On Mack Applications	
4524QMR	16 1/2 X 5	Arvin Meritor Q Style Mainly Used On Mack Applications	
4524QR	16 1/2 X 5	Arvin Meritor Q Style	
4524TMR	16 1/2 X 5	Arvin Meritor Pin Style - Mack	
4524TR	16 1/2 X 5	Arvin Meritor Pin Style	
4719ES2R	16 1/2 X 5	Dana Spicer/Eaton Extended Service 2nd Design Quick Change Style	
4719ESR	16 1/2 X 5	Dana Spicer/Eaton Extended Service 1st Design Quick Change Style	
4720QR	16 1/2 X 5	Arvin Meritor Q+ Style	
4317EHMR	16 1/2 X 6	Dana Spicer/Eaton EB Series High Mount	
4317ER	16 1/2 X 6	Dana Spicer/Eaton EB Series Low Mount	
4514QMR	16 1/2 X 6	Arvin Meritor Q Style Mainly Used On Mack Applications	
4514QR	16 1/2 X 6	Arvin Meritor Q Style	
4514TR	16 1/2 X 6	Arvin Meritor Pin Style	
4715QR	16 1/2 X 6	Arvin Meritor Q+ Style	
4725ES2R	16 1/2 X 6	Dana Spicer/Eaton Extended Service 2nd Design Quick Change Style	
4725ESR	16 1/2 X 6	Dana Spicer/Eaton Extended Service 1st Design Quick Change Style	
4311EHMR	16 1/2 X 7	Dana Spicer/Eaton EB Series High Mount	
4311ER	16 1/2 X 7	Dana Spicer EB Series Low Mount	
4468TCR	16 1/2 X 7	Cast Shoe	
4515BQR	16 1/2 X 7	Bendix Quick Change Primarily Ford Cargo Series	
4515FQR	16 1/2 X 7	Fruehauf Quick Change Style	
4515FR	16 1/2 X 7	Fruehauf Pin Style	
4515HQR	16 1/2 X 7	Quick Change H Drill	
4515QR	16 1/2 X 7	Arvin Meritor Quick Change Style	
4515QX	16 1/2 X 7	Arvin Meritor Quick Change Style	
4515SPR	16 1/2 X 7	Special Lining Variation Rarely Used	
4515TBR	16 1/2 X 7	Arvin Meritor Pin Style - Bushed	
4515TCR	16 1/2 X 7	Cast Shoe Arvin Meritor Pin Style	
4515TR	16 1/2 X 7	Arvin Meritor Pin Style	
4515UR	16 1/2 X 7	U Brake	
4515X2R	16 1/2 X 7	Fruehauf XEM 2nd Design	
4515X3R	16 1/2 X 7	Fruehauf XEM 3rd Design Most Popular XEM Style	
4515X4R	16 1/2 X 7	Fruehauf XEM 4th Design	
4515X5R	16 1/2 X 7	Fruehauf XEM 5th Design	
4701DR	16 1/2 x 7	Dana Spicer Xtra Life Series	

#### Continued on next page

### 16<sup>1</sup>/<sub>2</sub>" Drum Diameter - Extended Application Coverage Continued

Base Shoe Number	Shoe Size	Description
4701DR	16 1/2 x 7	Dana Spicer Xtra Life Series
4707QHR	16 1/2 X 7	Arvin Meritor Q+ Extended Service High Rise
4707QMR	16 1/2 X 7	Arvin Meritor Q+ Extended Service For Mack
4707QR	16 1/2 X 7	Arvin Meritor Q+ Extended Service
4708EQR	16 1/2 X 7	Dana Spicer/Eaton ES Series Quick Change
4708ETR	16 1/2 X 7	Dana Spicer/Eaton Extended Service Pin Style
4708EX3R	16 1/2 X 7	Dana Spicer/Eaton Extended Service Fruehauf XEM Replacement
4708TCR	16 1/2 X 7	Cast Shoe Dana Spicer/Eaton Severe Duty Quick Change
4709ES2R	16 1/2 X 7	Dana Spicer/Eaton Extended Service 2nd Design
4709ESR	16 1/2 X 7	Dana Spicer/Eaton Extended Service 1st Design
4625TBR	16 1/2 x 7	Pin Style Bushed
4625TR	16 1/2 x 7	Pin Style Right Side
4644TLR	16 1/2 X 8	Arvin Meritor Pin Style Left Side
4644TRR	16 1/2 X 8	Arvin Meritor Pin Style Right Side
4718QR	16 1/2 X 8	Arvin Meritor Q+ Style
4551FLR	16 1/2 X 8 5/8	Fruehauf Pin Style Left Side
4551FRR	16 1/2 X 8 5/8	Fruehauf Pin Style Right Side
4551QR	16 1/2 X 8 5/8	Arvin Meritor Q Style
4551TR	16 1/2 X 8 5/8	Arvin Meritor Pin Style
4551X3LR	16 1/2 X 8 5/8	Fruehauf XEM 3rd Design Left Side
4551X3RR	16 1/2 X 8 5/8	Fruehauf XEM 3rd Design Right Side
4674ER	16 1/2 X 8 5/8	Dana Spicer EB Series Low Mount
4711QR	16 1/2 X 8 5/8	Arvin Meritor Q+ Style
4726ES2R	16 1/2 X 8 5/8	Dana Spicer/Eaton Extended Service Quick Change Style
4726ESR	16 1/2 X 8 5/8	Dana Spicer/Eaton Extended Service Quick Change Style
4552QNR	16 1/2 X 10	Arvin Meritor Q Style
4552QOR	16 1/2 X 10	Arvin Meritor Q Style
4552T2R	16 1/2 X 10	Arvin Meritor Pin Style
4552TR	16 1/2 X 10	Arvin Meritor Pin Style

### Other Drum Diameters - Extended Application Coverage

Base Shoe Number	Shoe Size	Description
1233119R	12.13 X 2 1/4	Hydraulic
4700DXQR	12 1/4 X 4	Dexter Quick Change
4700DXTR	12 1/4 X 4	Dexter PQ Style
4661DQ2R	12 1/4 X 5	Dexter Quick Change
4661DXQR	12 1/4 X 5	Dexter Quick Change
4661DXTR	12 1/4 X 5	Dexter PQ Style
4536DQR	12 1/4 X 5 1/2	Dana Spicer Quick Change
4536DQUR	12 1/4 X 5 1/2	Dana Spicer Quick Change U Brake
4536ER	12 1/4 X 5 1/2	Dana Spicer
4536SFTR	12 1/4 X 5 1/2	Dana Spicer Standard Forge Axles
4544TCR	12 1/4 x 5 1/2	Cast Shoe Standard Forge
4591DXQR	12 1/4 X 7 1/2	Dexter Quick Change
4591DXTR	12 1/4 X 7 1/2	Dexter Pin Type
4591ER	12 1/4 X 7 1/2	Dana Spicer
4591SFTR	12 1/4 X 7 1/2	Standard Forge Pin Type
4621RWR	12 1/4 X 7 1/2	Rockwell Wedge
4670QR	12 1/4 X 7 1/2	Arvin Meritor
4692DQ2R	12 1/4 X 7 1/2	Dana Spicer Quick Change 2nd Gen
4692DQUR	12 1/4 X 7 1/2	Dana Spicer Quick Change U Brake
4692DTR	12 1/4 X 7 1/2	Dana Spicer Pin Style
4692DTUR	12 1/4 X 7 1/2	Dana Spicer Pin Style U Brake
4607TCR	12-1/4 x 7-1/2	Cast Shoe Standard Forge
4649FR	12-1/4 x 8	Fruehauf Propar
1294296R	14 X 2 1/2	Wagner No Wear Hole
1294325R	14 X 2 1/2	Wagner With Hole
2060361R	14 X 2 1/2	Ford Application
4398368R	14 1/2 X 5	Arvin Meritor W Series
42281157R	14 1/2 X 6	Arvin Meritor W Series
4541406R	14 1/2 X 8	Arvin Meritor W Series
4592686R	14 1/2 X 10	Arvin Meritor W Series
4592824R	14 1/2 X 10	Arvin Meritor W Series
46651314R	15 1/8 X 6	Transit
46901314R	15 1/8 X 6	Arvin Meritor Wedge Brake Dual Rail
46661317R	15 1/8 X 10	Transit
46911317R	15 1/8 X 10	Arvin Meritor Wedge Brake Dual Rail
4561TR	16 1/4 x 3 1/2	Arvin Meritor Pin Style
4527ER	18 x 7	Cast Shoe Dana Spicer/Eaton Severe Duty Single Anchor Pin
19745R	394mm X 203mm	
1477TTR	420 x 180MM	Theurer/BPW Trailer Axle Shoe

### Hardware Kits

Arvin Meritor "Q" & "Q+"



**CQ66867** Euclid E2769SHD, BWP M-K39, WA 2769SHD

#### Arvin Meritor "Q+" Steer Axle Dual Rail



CQ65642 Euclid E 9064, BWP M-K98, WA08-5093

#### Eaton E5 2nd Design - 7 - 8 5/8" Shoes



CQ65477 Euclid E 10244, BWP M-K105, WAE 10244

#### Arvin Meritor "Q" Steer Axle - Single Rail



CQ69001 Euclid E3869; BWP M-K79, WAE 3869

#### **Arvin Meritor Pin Style**



**CQ67390** Euclid Kit-4HD, BWP M-K4, WA08-5053

#### Eaton E5 2nd Design - 5" - 6" Shoes



CQ65445 Euclid E10760, BWP MK113, WA08-5038

### Hardware Kits

#### Eaton ES 1st Design



**CQ65481** Euclid E5481A, BWP M-K84, WAE 5481

#### **Eaton Conventional Style**



**CQ67319** Euclid E1887AHD, BWP M-K10, WA 1887ASHD **Eaton Steer Axle** 



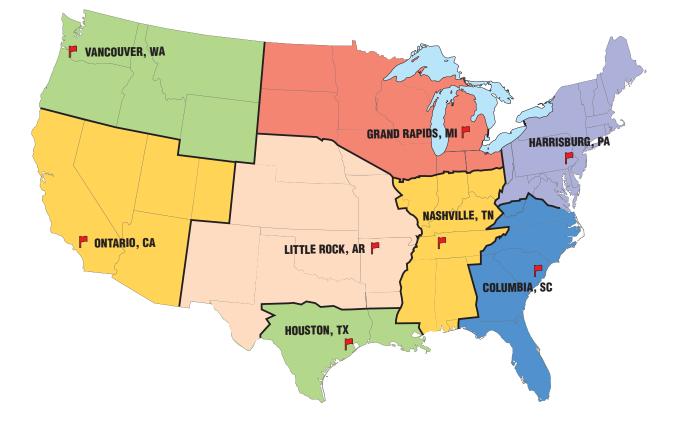
**CQ66917** Euclid E 5139, BWP M-K77, WAE 5139

Fruehauf XEM3



**CQ66914** Euclid E3710HD, BWP M-K42, WA 3710SHD

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