

Designs in Ductile Iron

Cost

Saving

Design

Ideas



CASTING APPLICATION Gear Axle and Hub
Gear axle with removable hub for gear transfer case

SPECIFICATION Austempered Ductile Iron

REDESIGN Converted from fabricated steel

COST SAVINGS Weld time eliminated, weight reduction of 3.3 lbs

DESIGN Improved serviceability of gearbox

ADVANTAGES reduced noise, improved steering response.

SIZE & WEIGHT 6.5 X 7.5 gear axle, 5.25 in dia hub, 10.6 lbs

COMPANY FOUNDRY Walker Manufacturing
Farrar Corp,
Norwich, KS



CASTING APPLICATION Truck Cab Mount
Cab-Over-Engine Truck Cab

SPECIFICATION REDESIGN ASTM A-536 (80-55-06)
From Welded and Bolted Assembly

COST SAVINGS Part Cost Reduced 31%; \$192,000 Annual Savings

DESIGN ADVANTAGES Improved Fatigue Life;
Two Castings Replaced
25 Weld Assemblies
(34 Separate Piece Parts)

SIZE & WEIGHT Unknown

COMPANY Freightliner Corporation
Hillsboro, OR

FOUNDRY Unknown

DUCTILE IRON GROUP