



**SHIFT GEARS WITH TRC QUALITY**

# Off Highway Remanufacturing



Remanufactured  
in the USA



**It's What's Inside That Counts**



Authorized Overhaul Center  
Pennsauken, NJ & Charlotte, NC



Authorized Distributor, Service Center and  
Warranty Center

**SPICER®**

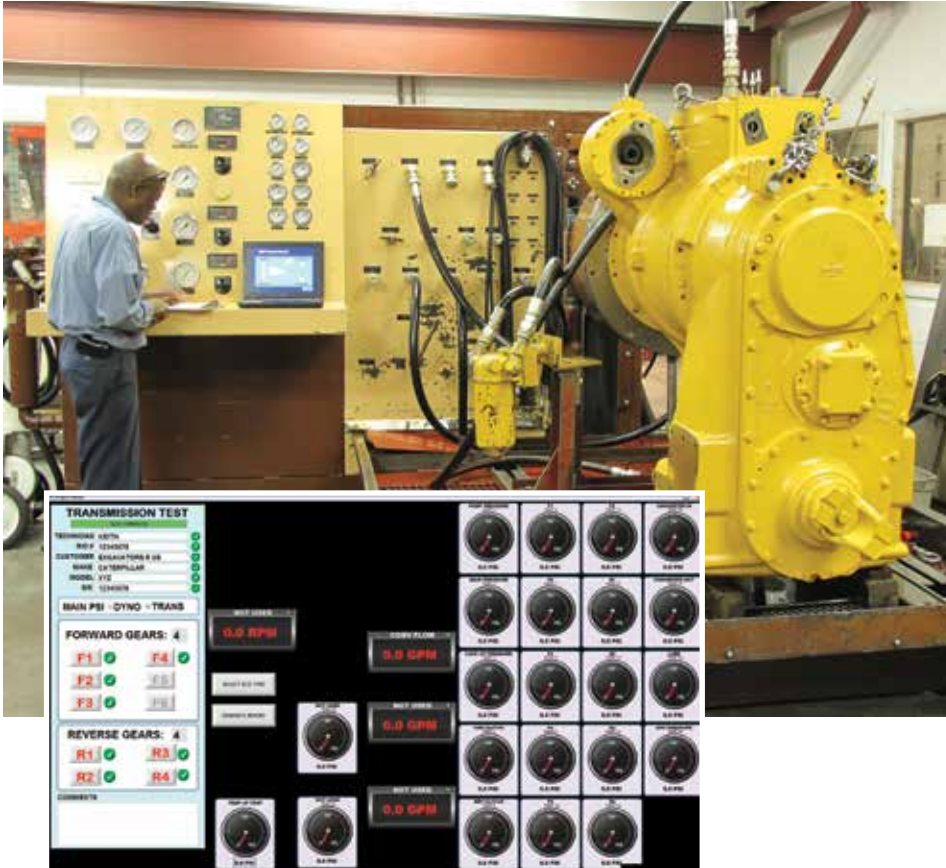


Authorized Distributor, Service Center  
and Warranty Center





# Test Capabilities



TRC's dynamometers are complete with computerized Data Acquisition programs that sample three data points every second.

We can test powershift transmissions, open loop hydraulic pumps and closed loop hydrostatic transmissions to full load capabilities.

Each test record is then loaded into our system, and a copy of the report is delivered with your component. If you wish, we can log you on to our system so you can view your component being tested in real time. The screen shot on the left shows a 6-speed power shift transmission.

Overall, TRC has 15 dynamometers and test stands.

# Reman Capabilities

While we have the industry's most technologically advanced remanufacturing facilities, highly trained employees in locations throughout the country make the system work.

Our technicians are trained by the industry's largest OEM suppliers such as Allison; Dana; Eaton; ZF; Caterpillar; John Deere, Twin Disc, Funk, Kessler and Volvo.

- Environmentally safe parts cleaning systems
- Full machine shop
  - Lathes
  - Milling machines
  - CNC machines
  - Grinders
  - Computerized lapping tables
- Light meters for measuring flatness
- Walnut shell blasters
- Glass bead blasters
- Paint booths
- Downdraft filtered workbenches
- ISO 9001: 2008 certified processes
- On staff Industrial Engineers
- Kai Zen quality management events performed biannually




Equipment Cross-Reference Guide

Manufacturer	Machine	Comments
Al-Jon	compactor	Sauer hydraulics
Atlas	excavator	Linde hydraulics
Barber Greene	pavers	Sundstrand pumps & motors; Spicer axles
Bobcat	skid steer	Eaton hydraulics, Sauer Danfoss hydraulics
Bomag	rollers	Linde, Rexroth, Poclain pumps & motors; Spicer axles
Bucyrus Erie	track hoe	Linde hydraulics
Bell	rear dump	ZF Transmission
Case	backhoe	Danfoss & Commercial pumps; Borg Warner & Clark transmissions
	track loader	Sundstrand pump & motors
	dozer	Sundstrand pump & motors
	wheel loader	Commercial pumps; ZF, Clark & Twin Disc trans; Rockwell / Carlisle brakes
	rear dump	ZF transmission
	excavator	Linde & Kawasaki pumps & motors
	skid loader	Sauer hydrostatic transmissions
Caterpillar	dozer	Linde, Rexroth, Tyrone, Vickers hyd.
	track loaders	Linde, Tyrone, Vickers hyd.
	excavators	Linde, Rexroth, Kawasaki, (ZF gearbox on wheeled units)
	milling machine	Sundstrand, TRW Ross
	graders	Vickers
	scrapers	Tyrone, Vickers
	backhoe	Rexroth, Vickers pumps, Charlynn steering, Spicer Trans. Cat Axle
	wheel loaders	Vickers, Tyrone, Linde hyd ; Carlisle brakes
	fork lift	Sundstrand, Borg Warner, Funk transmissions
	haul trucks	Tyrone pumps; Cat transmissions; Carlisle brakes
Champion	graders	Clark transmissions
Daewoo / Doosan	loaders	Clark transmissions
	excavators	Kawasaki, Linde hydraulics
Demag	shovel	Rexroth hydraulics
	excavators	Kawasaki pumps, Teijin Seiki track drives
Euclid	haul truck	Tyrone hydraulics; Allison transmissions; Carlisle brakes
	excavators	Linde, Kawasaki, Teijin Seiki hyd.
Fantuzzi	fork lift	Commercial, Casappa; Clark transmissions
Fiat	wheel loader	Commercial, Sauer hyd; Clark, Twin Disc transmissions; Carlisle brakes
	excavator	Linde, Rexroth
Ford	backhoe	Twin Disc transmissions
Fuchs	scrap handler	Linde hydraulics
Galion	grader	Commercial hyd; Funk transmissions
Gomaco	paver	Parker hydraulics
Gradall	excavator	Commercial, Rexroth, KYB, hyd
	rough terrain lift truck	Tyrone hyd; Clark transmissions; Spicer axles
Grove	cranes	Commercial, Tyrone, Rexroth hyd; Clark, Funk transmissions
Hamm	rollers	Linde hyd.
Hitachi	excavator	Kawasaki, Hitachi, Uchida hyd
	haul truck	Allison transmissions
Hyster	lift trucks	Commercial hyd; Clark, Funk, Twin Disc, ZF trans, Spicer & ZF Axle
Hyundai	excavator	Kawasaki, Teijin Seiki hyd.
Hydro-Ax	tractor	Linde, Commercial, Tyrone hydraulics
Ingersoll-Rand	rollers	Sundstrand, Poclain hyd
	rough terrain lift truck	Commercial, Tyrone hyd; Clark transmissions; Spicer axles
	drill rig	Denison hydraulics
JCB	backhoe	Hydreco pumps; ZF transmission & axle Carlisle brakes
	excavator	Kawasaki pumps

Equipment Cross-Reference Guide

Manufacturer	Machine	Comments
John Deere	backhoe	Deere radial pumps; Hydura pumps, Borg Warner, ZF transmission, Funk axle
	dozers	Sauer hydrostatics
	dump	ZF transmission
	track loaders	Sauer hydrostatics
	excavators	Uchida, Linde, Kawasaki, Hitachi
	wheel loaders	Tyrone implement pumps, Daiken hydrostatics, Twin Disc & ZF Trans.
JLG	manlift	Sauer hydraulics
Kalmar	lift truck	Clark transmissions, Spicer, Kessler & AxleTech axles
Kato	excavator	Kawasaki, Uchida, Teijin Seiki hyd.
Kawasaki	loader	Shibura, Gear Tec hydraulics, Shinko transmissions
Kobelco	excavator	Kawasaki, Uchida, Daiken, Teigin Seiki hyd.
Koehring	excavator	Commercial, Tyrone, Linde, Kawasaki, Sundstrand hyd.
	crane	Commercial, Tyrone hyd; Clark transmissions
Komatsu-Dresser	excavator	Komatsu, Teijin Seiki hyd.
	dozer	Commercial, Tyrone, Hydreco hyd, Clark, Twin Disc transmissions
	track loader	Linde, Komatsu hyd.
	roller	Vickers, Sundstrand hyd.
	wheel loader	Komatsu, Commercial hyd; Twin Disc, Clark, Shinko transmissions; Carlisle brakes
Liebherr	excavator	Linde, Liebherr hyd.; Rexroth motors, Spicer axle & 2 speed trans. On wheeled excavator
	dozer	Linde hyd.
	track loader	Linde hyd.
	crane	Linde, Rexroth, Liebherr hyd; ZF transmissions
Linkbelt	excavator	Linde, Kawasaki, Uchida, Teiji Seiki
	crane	Commercial, Tyrone hyd.; Clark, Twin Disc transmissions
Lull	rough terrain lift truck	Tyrone hyd.; Clark, Twin Disc, ZF transmissions. Spicer, ZF axles
Manitowoc	crane	Sunstrand hyd.; Twin Disc, ZF transmissions; Twin Disc converters
Morbark	tub grinder	Charlynn motors
Moxy	dump	ZF transmissions, ZF axles
New Holland	skid steer	Eaton hydraulics
	excavator	Rexroth hydraulics
Payhauler	dump	Commercial, Tyrone, Hydreco hyd.; Twin Disc transmissions
P & H	crane	Rexroth, Tyrone, Commercial hyd.; Funk, Clark, ZF, Shinko trans. Kessler, ZF axles
Pettibone	crane	Commercial hyd.; Clark, Funk transmissions, Pettibone axles
Putzmeister	concrete pumper	Rexroth hyd.
Schwing	concrete pumper	Rexroth hyd.
Taylor	lift truck	Commercial hyd, Clark, Twin Disc, ZF transmissions, Spicer, ZF axles
Terex	dump	Commercial, Tyrone, Hydreco, David Brown hyd.; ZF, Twin Disc trans. Carlisle brakes
	scraper	Commercial, Tyrone, Hydreco, David Brown hyd.; ZF, Twin Disc, Funk transmissions, Carlisle brakes
Timberjack	skidder	Vickers, Rexroth hyd.; Clark transmissions; Spicer axles
Trojan	loader	Commercial hyd.; ZF transmissions; ATE brakes
Unit Rig	haul truck	Carlisle brakes
Valmet	cargo loader	Clark transmissions; Rexroth hydrostatics
VME	wheel loader	Tyrone hyd.; Vickers Pumps Clark transmissions; Carlisle brakes
	rear dump	Commercial hyd.; Clark transmissions; Carlisle brakes
Volvo	wheel loader	Tyrone, Vickers hyd.; Volvo transmissions; Volvo axles, Carlisle brakes
	excavator	Kawasaki, Rexroth hyd.
	articulating dump	Allison, Volvo, ZF transmissions; Vickers hydraulics; Carlisle brakes

Distributor / Dealer



**Muncie®  
Power  
Products**

PTOs / Split Shaft PTO



Piston pumps, motors, hydrostatic transmissions, final drives, pumps



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Pumps, motors, hydrostatic transmissions

**Kawasaki**

Hydraulic pumps, motors, hydrostatic transmissions, slew drives, final drives



Hy-Dash final drives, motors



PTOs, pumps, drives

**Rexroth**  
**Bosch Group**

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**International**  
A GENERAL DYNAMICS COMPANY

Drive axles, steer axles, differentials



Brake calipers, valves, lever locks & systems



Axles, differentials



Transmissions, speed increasers, speed reducers, transfer cases



Brake calipers, pads, valves, master cylinders



Slew drives, track drives, axles, speed increasers, drive shafts

**TRANSFLUID**  
**trasmissioni industriali**

Transmissions, fluid couplings, variable speed drives, pump drives

**Twin Disc / ZF / Fairfield Torque Hub / Funk / KYB / Poclain**

For Orders,Tech Support, Core Processing/Shipment and Warranty Administration, Contact:



**Phone: 855.587.2736**

**Fax: 856.661.0092**

# Construction Equipment Component Average Life Expectancy

Component & Equipment	Hours to Replacement
Drive Axle Differentials-Backhoe	9,405
Drive Axle Differentials-Wheel loader 150-249hp	10,235
Transmission-Backhoe	8,737
Transmission-Dozer/Track loader <100hp	8,495
Transmission-Wheel loader 150-249hp	8,322
Final Drive-Dozer/Track loader < 100hp	8,419
Main pump-Excavator < 12,000 lbs	4,579
Hydrostatic pump- Skid / steer loader	4,969
Hydrostatic pump-Dozer/Track loader < 100hp	6,151
Hydrostatic pump-Wheel loader 150-249hp	8,092
Swing pump/motor-Excavator < 12,000lbs	4,446

These hours come from a nationwide survey done by MacKay & company. This is the average life for these components before major failure. The survey information came from large construction companies throughout the country.

A TRC overhaul before a component fails will be a fraction of the cost of a major overhaul after a catastrophic failure! **Check your hour meter now.**



**For More Information, email:  
[contact@trcreman.com](mailto:contact@trcreman.com)**

**Or visit our website at:  
[trcreman.com](http://trcreman.com)**

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