

# THE NEW 90Z7

**INTRODUCING THE FIRST  
KAWASAKI-KCM TIER 4 FINAL  
WHEEL LOADER, THE 90Z7**



**T**he Z7 Series of Kawasaki-KCM loaders, introduced at the last ConExpo 2014, is designed from the ground up with a totally new-to-loaders hydraulic system, an intuitive, computer-controlled operating system that adjusts the powertrain and hydraulics for best application requirements and the most simple, sure-fire emission system in the industry.

The new 90Z7 Tier 4 loader provides compliance with EPA-mandated emissions with a world of major improvements for better operation and drastically improved fuel efficiency.

## FUEL EFFICIENT

The new, Tier 4 Final 90Z7 is among the most fuel efficient loaders on the market, based on the latest technologies.

First, the Z7 Series uses Open-Center, Load-Sensing Hydraulic Controls, well proven in hydraulic excavators. A sophisticated

network of sensors feeding the KCM Intellitech system provides immediate feedback for priority shifting of hydraulic power to the demand. This reduces engine stress while getting more overall productivity.

Second, the Z7 has controlled acceleration to achieve excellent cycling without unnecessary fuel consumption. This is achieved through sophisticated logic in the controller for precise fuel delivery.

Third, transmission shift points are flexible to match work conditions, which allows for the proper speed/rimpull balance to meet job conditions.

Fourth, the Cummins QSL9 diesel engine. All of the performance upgrades made for the Tier 4 Interim have been incorporated into the Tier 4 Final engines with maximized torque reaching 1200 ft/lbs. and even better fuel economy while achieving near -zero emissions. This comes from their proprietary emissions aftertreatment systems.

## SIMPLE EMISSIONS

The 90Z7 has one of the simplest emission systems in the industry. By eliminating the DPF, there is no need for DPF regeneration. Using only SCR keeps the emission system simple but effective. All Tier 4 Final engines require DEF to reduce NOx.

## SMOOTH, RESPONSIVE EXECUTION

The same, advanced technology that helps the 90Z7 gain fuel economy while meeting near-zero emissions also helps your operator achieve the most that they can. The system can take operating information and modify powertrain and hydraulic systems for optimum power and efficiency. KCM calls it IntelliDig—as the rimpull force and breakout forces are balanced to provide optimal digging performance automatically.

Transmission shift points that minimize engine load for maximum fuel economy also work to automatically provide, smooth, and fast speed adjustments.

## AMAZING VISIBILITY

One of the most impressive attributes of the Z7 Cab is that the operator can REALLY see! They can easily see their bucket position; their working area and wheels. Standard rear camera monitors neatly positioned for quick glances provide increased confidence for faster backing and maneuvering, are supplemented by the improved rearview mirrors.



*A comfortable operator is a productive operator. In the Z7s the operator comfort is outstanding. Quiet, convenient, clean and designed for optimum operator comfort, safety, and productivity.*

## CAB COMFORT? OF COURSE!

Steering is done by either the conventional steering wheel or with easily feathered Joysticks—thanks to the same, pilot assisted hydraulic system that helps improve other operator functions.

The cab is tight for superior pressurization, which keeps dust out and makes breathing easier. Engine and hydraulic noise is minimized for increased comfort and for the operator to better monitor external noises.

The air suspension seat provides outstanding comfort and adjustability. Access ladders are inclined for easier climbing. AC controls and vents can adjust to suit any situation from Arizona heat to Alberta cold.



*Routine maintenance and servicing is efficient from start to finish. From the Global e-Service Telematics system monitoring your maintenance needs, to the easy access, ground level site gauges and fittings, the Z7 loaders are designed to simplify your maintenance management.*

## EXTENDED SERVICE INTERVALS

### THE Z7 SERIES FEATURES THREE SIGNIFICANT WAYS TO EXTEND SERVICE INTERVALS:

1. **KCM Super EX46 Hydraulic Fluid is specially formulated without Zinc to be used longer between changes.**
2. **CJ4 Engine Oil, which is low ash, allows for engine oil intervals to extend from 250 hours to 500 hours.**
3. **KCM provided HN™ bushings found throughout the entire front end are impregnated with oil which provides added lubrication and extended lubrication intervals.**

## GLOBAL E-SERVICE

Each new 90Z7 comes with equipment installed to monitor all machine systems and collects operating data and alerts, which it transmits to equipment managers, dealers and factory staff at KCMA. This system allows for more efficient management of fleets, routine maintenance and operating costs.

### CHART SUMMARY:

- 90Z7 Tier 4 Final Certified
- Bucket Capacity: 5.5 Yd<sup>3</sup> (4.2 M<sup>3</sup>)
- Engine Net Horse Power: 275 HP (205Kw)
- Operating Weight: 53,310 Lbs (24,180 Kg)
- Overall Length: 29'7 3/4" (9025 mm)
- Overall Width: 9'7-3/8" (2930 mm)
- Height to Cab Top: 11'7" (3530 mm)