

WE THINK GENERATIONS AHEAD...

Committed to Customer Success

- IMPROVED FLUID EFFICIENCY Up to 5% net improvement over Tier 4 Interim (including DEF consumption)
- POWER AND PERFORMANCE Integrated design boosts power and performance across applications
- RELIABILITY through commonality and simplicity of design
- MAXIMIZED UPTIME AND REDUCED **COST** with world-class support from the Cat dealer network
- LONG LIFE Cat durability and long life to overhaul
- MINIMIZED IMPACT of Emission System service and maintenance: maintenance points are grouped at 5,000 hours to minimize downtime
- **DELIVERING MORE** power, better fuel economy and minimizing your maintenance costs, while meeting emissions requirements

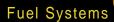


Caterpillar equips every Tier 4 Final/Stage IV engine with state-of-the-art technology--an ideal combination of electronic, fuel, air and aftertreatment components, based on engine size, the type of application and the geographic location in which it will work. Applying technologies systematically and strategically optimizes them to meet our customers' high expectations for productivity, fuel efficiency, reliability and service life.



CAT® 9L-18L ACERT™ Engines

	Tier 3	Tier 4 Interim/ <i>Stage IIIB</i>	Tier 4 Final <i>/ Stage IV</i>
Max Fuel Sulfur Content (in Parts per Million)	500	15/ <i>ID</i>	15/ <i>10</i>
Diesel Exhaust Fluid (DEF)	Not Required	Not Required	Required (ISO 22241)
BioDiesel	B20	B20	B20
Fluid Consumption	Base	Up to 5% fuel efficiency improvement	Up to 5% net improvement over Tier 4 Interim (including DEF consumption)
Engine Oil	ECF-2 (CI-4)	ECF-3 (CJ-4)	ECF-3 (CJ-4)
Drain/Filter Intervals	500 hrs	500 hrs	500 hrs
Valve Lash	500 and 2,500 hrs	2,500 hrs	2,500 hrs
DPF Ash Service	N/A	5,000 hrs	5,000 hrs
OCV Filter Replacement	N/A	2,000 hrs*	N/A
CRS Spark Plug Interval	N/A	5,000 hrs	5,000 hrs
DEF Filter Replacement	N/A	N/A	5,000 hrs
Overhaul Life	Base	Same	Same



-High Pressure Common Rail Fuel Systems with full electronic injection improve precision and control that boosts performance and reduces particulate matter for the C9.3

-Advanced MEUI-C injector platforms handle increased injection pressures and more precise fuel rates. These durable injectors enhance responsiveness while controlling particulate matter in the C13, C15, and C18 ACERT



Engine Electronics

-Increased features and connection commonality improve the customer experience and increase quality

-Over Foam wiring harness adds to reliability even in the most demanding applications.



Emissions Reduction

-Durable packaged systems designed to withstand even the most demanding applications -Fuel-efficient, reliable regeneration Operates automatically