

# ISMe5 – CUMMINS SOUTH PACIFIC RECOMMENDED MAINTENANCE SCHEDULE



Daily or refuelling maintenance	Every 400 hours/32,000 km 12,500 litres fuel burn or 6 months	Every 3000 hours/200,000 km 100,000 litres fuel burn or 12 months	Every 9000 hours/600,000 km or 300,000 litres fuel burn or 3 years
A check	B check (3)	C check (3)	D check (3)
CHECK / INSPECT / DRAIN	INSPECT / REPAIR / REPLACE	INSPECT / REPAIR / REPLACE	INSPECT / REPAIR / REPLACE
<ul style="list-style-type: none"> <li>■ Check operator's report</li> <li>■ Check air cleaner restriction indicator</li> <li>■ Check and correct                             <ul style="list-style-type: none"> <li>– Engine oil level</li> <li>– Coolant level</li> </ul> </li> <li>■ Visually inspect cooling fan</li> <li>■ Visually inspect drive belts</li> <li>■ Visually inspect intake air piping and CAC</li> <li>■ Visually inspect crankcase breather tube</li> <li>■ Drain fuel – water separator</li> <li>■ Drain air tanks and reservoirs</li> <li>■ Diesel Exhaust Fluid (DEF) level – check</li> </ul>	<ul style="list-style-type: none"> <li>■ Replace lubricating oil filter (1)</li> <li>■ Replace lubricating oil (1)</li> <li>■ Replace fuel filter</li> <li>■ Replace SCR doser inline air filter (7)</li> <li>■ Replace coolant filter as applicable</li> <li>■ Check air intake system</li> <li>■ Visually inspect all belts and hoses</li> <li>■ Inspect cooling system for leaks</li> <li>■ Test coolant glycol and coolant additive (SCA) condition (4) (6)</li> <li>■ Inspect battery electrolyte levels, cables and connection for corrosion, security and chaffing</li> <li>■ Visually inspect engine wiring harnesses for security, chaffing etc.</li> <li>■ Inspect/replace belt tensioners, idler pulleys and fan hub</li> <li>■ <b>Every other B check</b></li> <li>■ Flush AdBlue® dosing unit air side</li> </ul>	<ul style="list-style-type: none"> <li>■ Steam clean engine</li> <li>■ Operate engine and check intake air/exhaust systems</li> <li>■ Clean radiator and charge air cooler cores</li> <li>■ Pressure test charge air and cooling system</li> <li>■ Vibration damper</li> <li>■ Air compressor – inspect – service air compressor head</li> <li>■ Test/check starting/electrical charging circuit</li> <li>■ Visually inspect engine mounting bolts</li> <li>■ Clean crankcase breather tube</li> <li>■ Adjust valves, injectors and engine brakes Engine evaluation (5)</li> <li>■ Replace DEF in tank filter (8)</li> </ul>	<p><b>Maintenance check</b></p> <ul style="list-style-type: none"> <li>■ Cooling system – drain/flush/fill</li> <li>■ (4) Turbocharger – inspect clearances</li> </ul> <p><b>INSPECT / REPAIR / REPLACE</b></p> <ul style="list-style-type: none"> <li>■ Injectors</li> <li>■ Water pump</li> <li>■ Fuel pump</li> <li>■ Engine brake spool valves and springs</li> <li>■ Engine sensors</li> <li>■ Starter motor (2)</li> <li>■ Alternator (2)</li> <li>■ DEF dosing pump</li> </ul>

1. The lubricating oil and lubricating oil filter intervals are based on CES 20076/78/81. Oil change intervals need to be based on fuel consumption and whether or not the oil meets the above specifications.(API CJ4 oil recommended).
2. Follow the manufacturer's recommended maintenance procedures for the starter, alternator, batteries, electrical components, charge air cooler, air conditioner compressor and fan clutch.
3. Perform maintenance at whichever interval occurs first. At each scheduled maintenance interval, perform all previous maintenance checks, which are due for scheduled maintenance.
4. Test the glycol and SCA concentration levels every six months, according to the coolant manufacturer's recommendations. Drain/flush/refill coolant according to coolant manufacturer's recommendations. Use coolant as per Cummins service bulletin 3666132-04.
5. Dyno/load test engine and check crankcase blow-by, fuel pressure, turbo boost and fuel restriction.
6. Based on using TEC-PGXL long life coolant.
7. Replace inline air filter at every second oil change interval.
8. Recommend 35 Micron DEF in tank filter to be installed.
9. Refer to QuickServe Online procedure 011-082 for information on SCR doser flushing procedure.