

 <b>Asia Pacific</b> <small>A Sasser Family Holdings Company</small>	<b>CF Asia Pacific Group Pty Ltd (CFAP)</b> ABN 64 127 851 263 SAFETY MANAGEMENT SYSTEM 21. Asset management <b>DATA SHEET</b>	Document No. .... <b>CFAP TEM TAM 007</b> Parent Doc No. .... N/A Superseded Doc No. .... N/A Distribution Classification ..... A Retention Classification ..... SAF
	Data Sheet No. <b>CM Class Locomotive</b> Version > 1.0      Date > 08 Mar 19	

### GENERAL

<b>Class</b>	<i>CM</i>	<b>Manufacturer</b>	<i>Motive Power (Wabtec)</i>
<b>Locomotive Number</b>	<i>3301 - 3316</i>	<b>Manufacture Year</b>	<i>2013-14</i>

### OPERATING

<b>Load Category</b>	<i>L3</i>	<b>Live Weight</b>	<i>134 t</i>
<b>Speed Category</b>	<i>S5</i>	<b>Dead Weight</b>	<i>147 t</i>
<b>Draft Capacity</b>	<i>2.89 MN</i>	<b>Axle Load</b>	<i>22.3 t</i>
<b>Maximum Speed</b>	<i>115 km/h</i>	<b>Track Gauge</b>	<i>1435 mm</i>
<b>Fuel Capacity</b>	<i>10000 L</i>	<b>Length over Couplers</b>	<i>20218 mm</i>
<b>Operating Orientation</b>	<i>Single, Short End Leading</i>		

### TECHNICAL

<b>Locomotive Model</b>	<i>MP33C</i>	<b>Wheel Arrangement</b>	<i>Co-Co</i>
<b>Engine</b>	<i>Cummins QSK78-18</i>	<b>Wheel Diameter</b>	<i>1016 mm</i>
<b>Maximum Gross Power</b>	<i>3300 HP (2462 kW)</i>	<b>Generator</b>	<i>Kato 8P65-3000</i>
<b>Traction Power</b>	<i>3150 HP (2350 kW)</i>	<b>Traction Motors</b>	<i>EMD D87BTR</i>
<b>Engine Speed</b>	<i>1800 rpm</i>	<b>Control System</b>	<i>QES 111 CD</i>
<b>Lube Oil Capacity</b>	<i>455 L</i>	<b>Air Brake</b>	<i>FastBrake Electronic</i>
<b>Cooling Water Capacity</b>	<i>802 L</i>	<b>Dynamic Brake</b>	<i>Fitted</i>
<b>Continuous Tractive Effort</b>	<i>363 kN @ 16 km/hr</i>	<b>Air Conditioning</b>	<i>Fitted</i>
<b>Starting Tractive Effort</b>	<i>414 kN</i>	<b>Toilet</b>	<i>Fitted</i>
<b>Gear Ratio</b>	<i>61 : 16</i>	<b>Distributed Power</b>	<i>No</i>
<b>Other</b>	<i>Video Camera, Auto Shutdown</i>		

