

Locomotive Diesel Engine Replacement Program 2013

Tully Sugar Mill has a fleet of fifteen locomotives of which 13 are used for cane haulage.

The fleet consists of seven 38 tonne locomotives and eight 18 tonne locomotives. Of the eight 18 tonne locomotives six are permanently coupled together in what's known as a double-header configuration (i.e. three combinations of 2 locomotives). The two remaining locomotives operate independently.

Tully Sugar mill has commenced with a program to replace the locomotive engines a few years ago, as the engines are old had reached the end of their useful lives and the overhaul costs did not warrant their repair.

A decision was made at the time to standardise the engines in the fleet to two models. 38 tonne locomotives would be refitted with Cummins QSK19 engines and the 18 tonne locomotives would be refitted with Cummins M11 engines.

Both of the Cummins engines meet the American tier 1 – off road use emission standard.

The locomotive fleet, the drive engines and the year the remaining engines will be replaced are listed below.

Locomotive No:	Current Engine	Year of Installation	Year of Planned Replacement
3	Cummins QSK19	2013	Complete
4	Caterpillar C353	1968	2015
5	Cummins QSK19	2008	Complete
6	Caterpillar C353	1968	2014
7	Caterpillar C353	2008	2018
8	Caterpillar C353	1968	2017
9	Caterpillar C353	1968	2016
10 And 14 (Double Header)	Cummins M11	2009	Complete
	Cummins M11	2009	Complete
11 And 16 (Double Header)	Cummins M11	2001	Complete
	Cummins M11	2001	Complete
12 And 115 (Double Header)	Cummins M11	2010	Complete
	Cummins M11	2010	Complete
17	Detroit Diesel 671	1985	Used in yard only
18	Cummins M11	2007	Complete