

Engine Manufacturer: **MTU Detroit Diesel**
 Engine Model: **9043 MU32**
 Governing Standard: **CSA M424.2-90 (Non-Gassy Mines)**

Certificate Number	Engine Rating and Measured Fuel Rate at Sea Level	Sulphur in Fuel - %wt.	Ventilation Prescription*	
			CFM	m ³ /min
1191	173 HP @ 2200 RPM, 64.4 lb/hr	0.05	7,900	223.7
		0.10	9,000	254.9
		0.20	11,200	317.1
		0.25	12,300	348.3
		0.50	17,900 22,200+	506.9 628.6+
	148 HP @ 2200 RPM, 54.9 lb/hr	0.05	9,200	260.5
		0.10	10,100	286.0
		0.20	11,800	334.1
		0.25	12,700	359.6
		0.50	17,000 18,900+	481.4 535.2+
	121 HP @ 2200 RPM, 44.8 lb/hr	0.05	8,200	232.2
		0.10	8,700	246.4
		0.20	9,800	277.5
		0.25	10,600	300.2
		0.50	14,400 15,300+	407.8 433.2+
	101 HP @ 2200 RPM, 37.6 lb/hr	0.05	8,900	252.0
		0.10	9,300	263.3
		0.20	10,100	286.0
		0.25	10,400	294.5
		0.50	13,400	379.4

*These CSA ventilation rates are suitable for low sulphur fuel if permitted by the appropriate regulatory authority.

+ These ventilation rates are recommended by CANMET-MMSL where some of the gases govern ventilation rates rather than the EQI criterion.