

Engine Performanc	ce Curve ISF3.8	8s4168	125kW@2600rp	m	Automotive
Cummins Ltd		mins	600Nm@1300-1700rpm		
Yarm Road, Darling	gton		Curve Number	FR92018	Page 2
http://www.cummin	s.com		CPL code	43091	
Compression Datio	47.0.4	0	Date Encire Configuration	05-Mar-09	
Compression Ratio	17.2:1 Bosch Electronic		Engine Configuration	D0F3002BX03 China Stage 4	
Cvlinders	4		Aspiration	Turbocharged and Charg	e Air Cooled
Bore	102 mm		Displacement	3.76L	
Stroke	115 mm		Status	0	
General Performance Air Induction System Exhaust System Cooling System	Data Maximum low idle speed Minimum low idle speed Nominal no load governed sj Maximum overspeed capabil Clutch engagement torque a Maximum altitude for continu Maximum temperature rise b Maximum back pressure imp	beed lity (15 sec t 800rpm lous opera letween an losed by co	tion without derate nbient air and engine air inle omplete exhaust system	800 700 2,950 3,750 310 2616 t 15 20	RPM RPM RPM Nm m delta deg C kPa
Maximum coolant temperature (engine out) with 100kPa pressure cap				ap 110	deg C
Maximum coolant pressure (exclusive of pressure cap; closed				240	kPa
	Maximum temperature rise h	au speed) etween an	nbient air and intake manifol	310 d 30	deg C
Maximum allowable pressure drop across charge air cooler and				- 30	
OEM CAC piping (CACDP) Maximum coolant temperature for engin			÷	13.5	kPa
			ne protection controls	113	deg C
	Refer to AFB 21 52 for territo	cessories	cooling standard	20	L/minute
laximum Rating Perf	ormance Data		Maximum Power	Peak Torque	
Engine spe	ea		2600 rpm 125 kW	1500 rpm 94 kW	
Torque		459 Nm	600 Nm		
Inlet air flow			161 L/s	91 L/s	
Charge air flow			11 kg/minute	6.4 kg/minute	
Exhaust gas temperature		382 L/s 522 deg C	238 L/s 508 dec C		
Heat Rejection to coolant		60 kW	46 kW		
Radiator coolant flow*		190 L/min	110 L/min		
Heat Rejection to charge air cooler**		22 kW	15 kW		
Turbo Comp. Outlet Pressure		168 kPa	144 kPa		
Turbo Comp. Outlet Temperature		163 deg C	159 deg C		
Fuel Consumption		∠1.1 Kg/nr 1 518 kPa	10.5 Kg/nr 1925 kPa		
Diake Wedi			1,010 Ki a	1,920 NI a	I
Radiator coolant flow oolant: 50/50 Ethylen alues are within +/-5% 'Heat rejection to char	is approximately 5% less with e Glycol/Water by volume. 6 rge air cooler is at standard e	a continu	ously dearating system. conditions of 25degC turbo a	air inlet temperature	
		Cum	mins Confidential		

ISF3.8s4168

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