

RATINGS				
Straight-Thru Model		Gross Input Torque Gross Input Power N●m (lb-ft) kW (hp)		Turbine Torque Net N•m (lb-ft)
H8610	Rear Dump Truck, Coal Hauler	4881 (3600)	783 (1050)	7647 (5650)
M8610	General	4881 (3600)	783 (1050)	7647 (5650)
	Oil Field	4881 (3600)	895 (1200)	8089 (5966)
	Agricultural Tractor	4339 (3200)	634 (850)	7186 (5300)
S8610	Oil Field Equipment	4881 (3600)	895 (1200)	8089 (5966)

ENGINE INTERFACE

Acceptable full-load engine governed speed 1800 – 2300 rpm Minimum engine idle speed range (with transmission in Drive) 550 rpm

MOUNTING

Direct SAE No. 0 automatic flywheel housing with flexplate drive. Cradle mount using engine flywheel housing mounting pads and transmission rear cover mounting pads with 0.625-11 inch series bolts

Remote Side pads on transmission rear cover plus front trunnion mount

				/FR	

Type Single stage, three element, polyphase.

Model	Stall Torque Ratio	Kp-Factor* at Stall
TC-840	2.26	37.1 (43.2)
TC-860	2.33	35.0 (40.7)
TC-880	2.20	31.7 (36.9)
TC-890	1.86	28.0 (32.6)
TC-1070	1.78	26.2 (30.5)
TC-1078	1.84	24.6 (28.6)

Includes standard integral damper which is operational in lockup

 ^{*} Kp-Factor defines torque converter capacity. Kp = the ratio of converter pump speed [rpm] divided by the square root of the pump torque [N•m (lb-ft)]

MECHANICAL RATIOS (Gear ratios do not include torque converter multiplication)				
Range				
First	4.24 : 1			
Second	2.32 : 1			
Third	1.69 : 1			
Fourth	1.31 : 1			
Fifth	1.00 : 1			
Sixth	0.73 : 1			
Reverse 1	-5.75 : 1			
Ratio Coverage				
Forward	5.81			

CONTROL SYSTEM

DescriptionAutomatic electronic, manual electric

OPTIONAL ENGINE-DRIVEN POWER TA	KE-OFF PROVISION	
Side mount		
Location		5 o'clock position, as viewed from rear
PTO drive gear rating	Intermittent	59 tooth drive gear, 298 kW (400 hp)
	Continuous	59 tooth drive gear, 224 kW (300 hp)
Top Mount		
Location		12 o'clock position, as viewed from rear
PTO drive gear rating	Intermittent	59 tooth drive gear, 298 kW (400 hp)
	Continuous	59 tooth drive gear, 224 kW (300 hp)

ELECTRONIC SPEEDOMETER PROVISION			
Description	LS-TTL signal, 41 pulses per output shaft revolution		
Location	Output signal from transmission TCM		

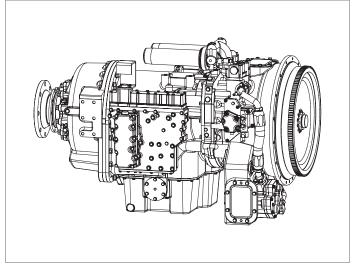
OUTPUT RET	TARDER PROVISION (OPTION	l)
Туре		Integral, hydraulic
Capacity	Torque	Power
	4679 N•m (3451 lb-ft)	1029 kW (1380 hp)

SIZE		
Depth (below horizontal centerline)		530 mm (20.9 in)
Length (direct mount) 2,3		1411 mm (55.5 in)
Width		892 mm (35.1 in)
	Height	Dry Weight
Basic model	898 mm (35.3 in)	1678 kg (3700 lb)
With direct mount filters	1011 mm (39.8 in)	1678 kg (3700 lb)
With top engine-driven PTO drive gear		1692 kg (3730 lb)
With park brake (17.25 x 4 in)		1746 kg (3850 lb)
With remote mount		1714 kg (3780 lb)

OIL SYSTEM	
Oil type	TES 439 (see www.allisontransmission.com for approved list)
Capacity excluding external circuits	79 litres (21.0 gallons)
Main circuit oil filter	
Standard	Manifold for full-flow, remote mounted, replaceable element
Optional	Direct-mount full-flow, replaceable elements (2)
Cooler circuit oil filter (optional)	Replaceable element, remote-mounted

^{1.} PTO ratings apply to both top and side. Combined totals cannot exceed individual ratings. 2. For remote mounting, add 279 mm (11 in). 3. Length is approximate from engine/converter mounting surface to face of typical output flange.

8000 Series



Information or specifications subject to change without notice or obligation.

