

## Allison Transmission Spec Sheet 9800 OFS Series

Off-highway 9800 OFS Series

### RATINGS

Model	Application	Input Power gross	hp (kW) net	Input Torque gross	lb-ft (N•m) net	Turbine Torque lb-ft (N•m) net
9817 OFS	Oil Field Pumping	1750 (1305)	1600 (1193)	5250 (7118)	4870 (6603)	7000 (9491)
9823 OFS	Oil Field Pumping	2350 (1752)	2250 (1678)	6300 (8542)	6100 (8270)	7550 (10,235)
9826 OFS	Oil Field Pumping	2600 (1939)	2500 (1864)	7750 (10,507)	7750 (10,507)	8000 (10,847)
9832 OFS	Oil Field Pumping	3200 (2386)	3000 (2237)	9000 (12,200)	8600 (11,600)	9400 (12,745)

### ENGINE INTERFACE

Acceptable full-load engine governed speed	1800 – 2100 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

### TORQUE CONVERTER

Type Single stage, three element, polyphase.

Model	Stall Torque Ratio	Kp-Factor* at Stall
TC-1060	1.86	39.1 (33.6)
TC-1070	1.78	30.5 (26.2)
TC-1078	1.84	28.6 (24.5)
TC-1080	1.61	25.8 (22.2)
TC-1090	1.31	19.6 (16.8)

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

### MECHANICAL RATIOS (Gear ratios do not include torque converter multiplication)

#### Range

First	3.75 : 1
Second	2.69 : 1
Third	2.20 : 1
Fourth	1.77 : 1
Fifth	1.58 : 1
Sixth	1.27 : 1
Seventh	1.00 : 1
Eighth	0.72 : 1
Reverse	Not Available

#### Ratio Coverage

Forward	5.21
---------	------

### CONTROL SYSTEM DESCRIPTION

Manual Electric or Electronic	9817 OFS and 9823 OFS
Electronic	9826 OFS and 9832 OFS

**OPTIONAL ENGINE-DRIVEN POWER TAKE-OFF PROVISION<sup>1</sup>**

Side mount

Location	5 o'clock position, as viewed from rear	
PTO drive gear rating	Intermittent	59 tooth drive gear, 400 hp (298 kW)
	Continuous	59 tooth drive gear, 300 hp (224 kW)

Top Mount

Location	12 o'clock position, as viewed from rear	
PTO drive gear rating	Intermittent	59 tooth drive gear, 400 hp (298 kW)
	Continuous	59 tooth drive gear, 300 hp (224 kW)

**ELECTRONIC SPEEDOMETER PROVISION**

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

**SIZE**

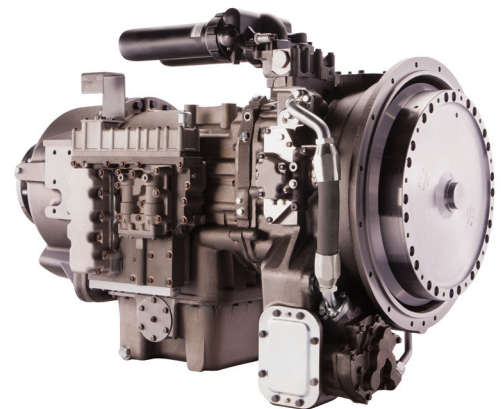
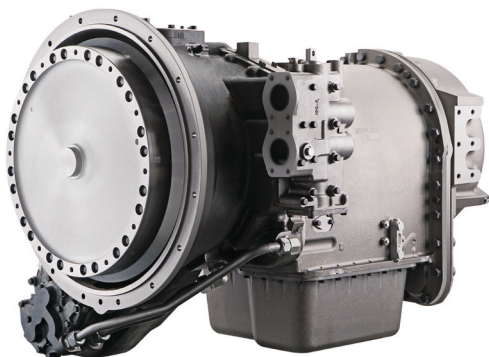
Depth (below horizontal centerline)	20.9 in (531 mm)
Length (direct mount) <sup>2,3</sup>	56.5 in (1435 mm)
Width	35.3 in (896 mm)

	Height	Dry Weight		
		9817 OFS / 9823 OFS	9826 OFS	9832 OFS
Basic model	35.3 in (896 mm)	3610 lb (1637 kg)	3710 lb (1683 kg)	3720 lb (1687 kg)
With direct mount filters	39.8 in (1011 mm)	3610 lb (1637 kg)	3710 lb (1683 kg)	3720 lb (1687 kg)
With remote mount		3690 lb (1674 kg)	3790 lb (1719 kg)	3800 lb (1724 kg)

**OIL SYSTEM**

Oil type	TES 439, (See " <a href="http://www.allisontransmission.com">www.allisontransmission.com</a> " for approved list)
Capacity excluding external circuits	21.0 gallons (79 litres)
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 11 in (279 mm).
3. Length is approximate from engine/converter mounting surface to face of typical output flange.



One Allison Way  
Indianapolis, Indiana USA 46222-3271

Information or specifications subject to  
change without notice or obligation.

[allisontransmission.com](http://allisontransmission.com)

9800EN (20160125)  
ISO/QS 9000 and ISO 14001 Certified

© 2016 Allison Transmission, Inc.  
All Rights Reserved.

