# **S9800 SERIES**

### UP TO 2250 HP (1678 kW), 6100 LB-FT (8270 N·m)



# SPECIFICATIONS

RATINGS		Net Input Torque Ib-ft (N∙m)	Net Input Power hp (kW)	Turbine Torque Ib-ft (N•m)
Oil Field		6100 (8270)	2250 (1678)	7550 (10,235)
ENGINE INTERFAC	CE			
Acceptable full-load	engine governed speed			1800–2100 rpm
Minimum engine id	le speed range (with transn	nission 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		
		Side pads on transmission rear cover, plus front trunnion mount		

#### TORQUE CONVERTER

Туре	Single stage, three element, polyphase	
	Stall Torque Ratio	Kp-Factor* at Stall
TC-1060	1.88	37.5 (32.3)
TC-1070	1.68	28.5 (24.5)
TC-1080	1.58	28.6 (24.6)

## MECHANICAL RATIOS\*

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
*Gear ratios do not include torque converter multiplication.	

### **CONTROL SYSTEM**

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Description
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Manual electric

#### **OPTIONAL ENGINE-DRIVEN POWER TAKEOFF PROVISION**

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

#### SPEEDOMETER PROVISIONS

Electronic

Description	Magnetic speed sensor, 41 pulses per output shaft revolution
Location	Output signal from speed sensor
Mechanical Drive	
Description	SAE "Heavy Duty" 5/32-inch; Ratio = 1.00:1
Location	Transmission rear cover

#### **OPTIONAL RETARDER PROVISION**

Input	Integral, hydraulic; coupling-type rotor	between fixed stators
Capacity	Torque	Power
	5000 lb-ft (6782 N•m)	2000 hp (1492 kW)

SIZE		
Length (direct mount) <sup>1, 2</sup>		57.0 in (1448 mm)
Width		45.0 in (1143 mm)
Depth (below horizontal centerline)		20.9 in (531 mm)
	Height	Dry Weight
Basic model with retarder	35.3 in (897 mm)	3700 lbs (1678 kg)
With direct mount filters	39.3 in (1013 mm)	3700 lbs (1678 kg)
With top engine-driven PTO drive gear		3730 lbs (1692 kg)
With park brake (17.25" x 5")		3850 lbs (1746 kg)
With remote mount		3780 lbs (1714 kg)
OIL SYSTEM		
Oil type		C-4, 15W40
Capacity, excluding external circuits		21.0 gallons (79 liters)
Main circuit oil filter		

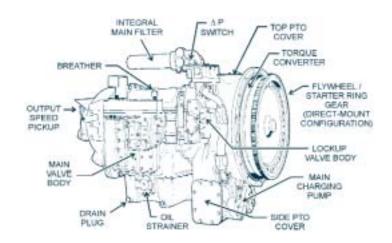
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Oil type		C-4, 15W40
Capacity, excluding external circuits		21.0 gallons (79 liters)
Main circuit oil filter		
Standard	Manifold f	for full-flow, remote mounted, replaceable element
Optional	Direct-mount full flow, replaceable elements (2)	
Cooler circuit oil filter (optional)		Replaceable element, remote-mounted

1 For remote mounting, add 11 inches (279 mm).

2 Length is approximate from engine/converter mounting surface to face of typical output flange.

#### **DESIGN FEATURES**





P.O. BOX 894, SPEED CODE PF3 INDIANAPOLIS, INDIANA 46206-0894 1-800-252-5ATD

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