



S9600 (STATIONARY)
M9600 (MOBILE)

UP TO 1250 HP (933 kW), 3700 LB-FT (5017 N•m)



SPECIFICATIONS

RATINGS		Net Input Torque lb-ft (N•m)	Net Input Power hp (kW)	Turbine Torque lb-ft (N•m)
S9600	Trencher, Coal Auger	3700 (5017)	1250 (932)	6000 (8135)
	Rear Dump Truck, Coal Hauler	3700 (5017)	1250 (932)	6000 (8135)

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	
	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)

*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*

Range	
First	4.24:1
Second	3.05:1
Third	2.32:1
Fourth	1.67:1
Fifth	1.00:1
Sixth	0.72:1
Reverse 1	- 5.75:1
Reverse 2	- 4.13:1
Ratio coverage Forward	5.89

*Gear ratios do not include torque converter multiplication.

CONTROL SYSTEM

Description	Automatic electronic, manual electric
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OPTIONAL ENGINE-DRIVEN POWER TAKEOFF PROVISION

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)

SPEEDOMETER PROVISIONS

Electronic

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

Mechanical Drive

Description	SAE "Heavy Duty" 5/32-inch; Ratio = 1.00:1
Location	Transmission rear cover

OPTIONAL RETARDER PROVISION

Input	Integral, hydraulic	
Capacity	Torque	Power
	5000 lb-ft (6782 N•m)	2000 hp (1492 kW)

SIZE

Length (direct mount) ^{1,2}	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	39.9 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

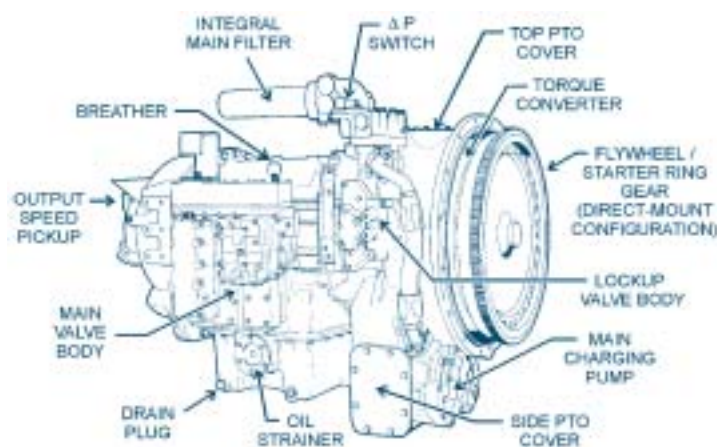
Oil type	C-4, 15W40
Capacity, excluding external circuits	21.0 gallons (79 liters)
Main circuit oil filter	
Standard	Manifold for full-flow, remote mounted, replaceable element
Optional	Direct-mount full flow, replaceable elements (2)
Cooler circuit oil filter (optional)	Replaceable element, remote-mounted

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

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

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DESIGN FEATURES



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