





| RATINGS | | | | |
|-----------|------------------------------|-----------------------------------|------------------------------|-----------------------------------|
| Straight- | Thru Model | Gross Input Torque N•m (lb-ft) | Gross Input Power kW (hp) | Turbine Torque Net N•m (lb-ft) |
| H9610 | Rear Dump Truck, Coal Hauler | 5423 (4000) | 1007 (1350) | 8135 (6000) |
| M9610 | Mobile Equipment | 5423 (4000) | 1007 (1350) | 8135 (6000) |
| S9610 | Stationary Equipment | 5423 (4000) | 1007 (1350) | 8135 (6000) |

| ENGINE INTERFACE | |
|--|-----------------|
| Acceptable full-load engine governed speed | 1800 – 2100 rpm |
| Minimum engine idle speed range (with transmission in Drive) | 550 rpm |

MOUNTING

TORQUE CONVERTER

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

| Туре | | | Single stage, three element, polyphase. | |
|------|------|-----|---|---------------------|
| | Мо | del | Stall Torque Ratio | Kp-Factor* at Stall |
| | TC-1 | 060 | 1.86 | 33.6 (39.1) |
| | TC-1 | 070 | 1.78 | 26.2 (30.5) |
| | TC-1 | 078 | 1.84 | 24.6 (28.6) |
| | TC-1 | 080 | 1.61 | 22.2 (25.8) |
| н | | | | |

^{*} 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 | | |
|---|-----------|--|
| ge | | |
| 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 | |

CONTROL SYSTEM

DescriptionAutomatic electronic, manual electric

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

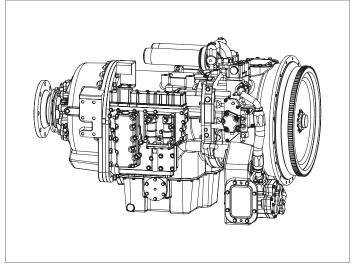
| OUTPUT RETARDER PROVISION (OPTION) | | |
|------------------------------------|-----------------------|---------------------|
| Туре | | Integral, hydraulic |
| Capacity | Torque | Power |
| | 5630 N•m (4152 lb-ft) | 1238 kW (1660 hp) |

| 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 | 896 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.

9000 Series



Information or specifications subject to change without notice or obligation.

