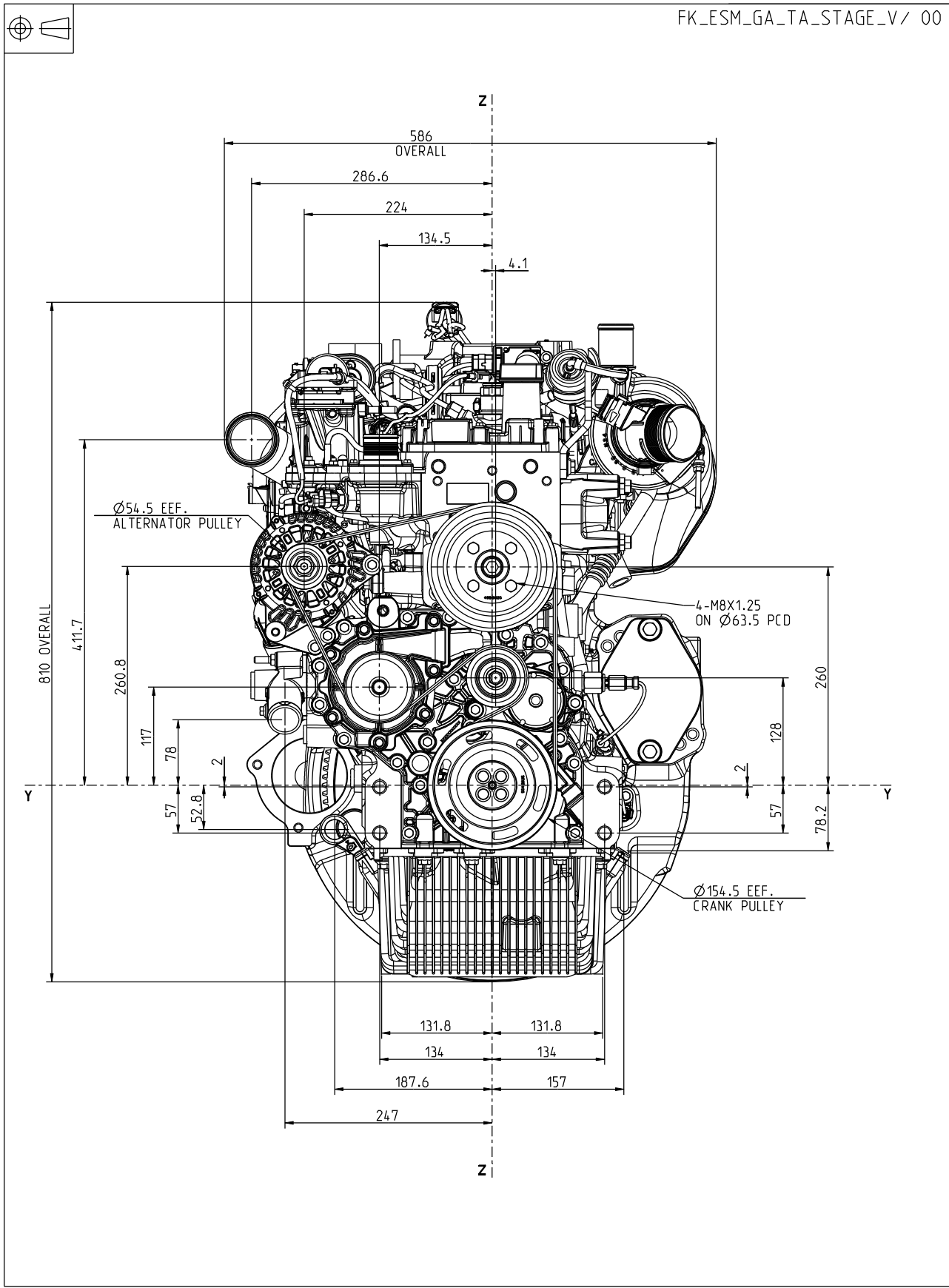
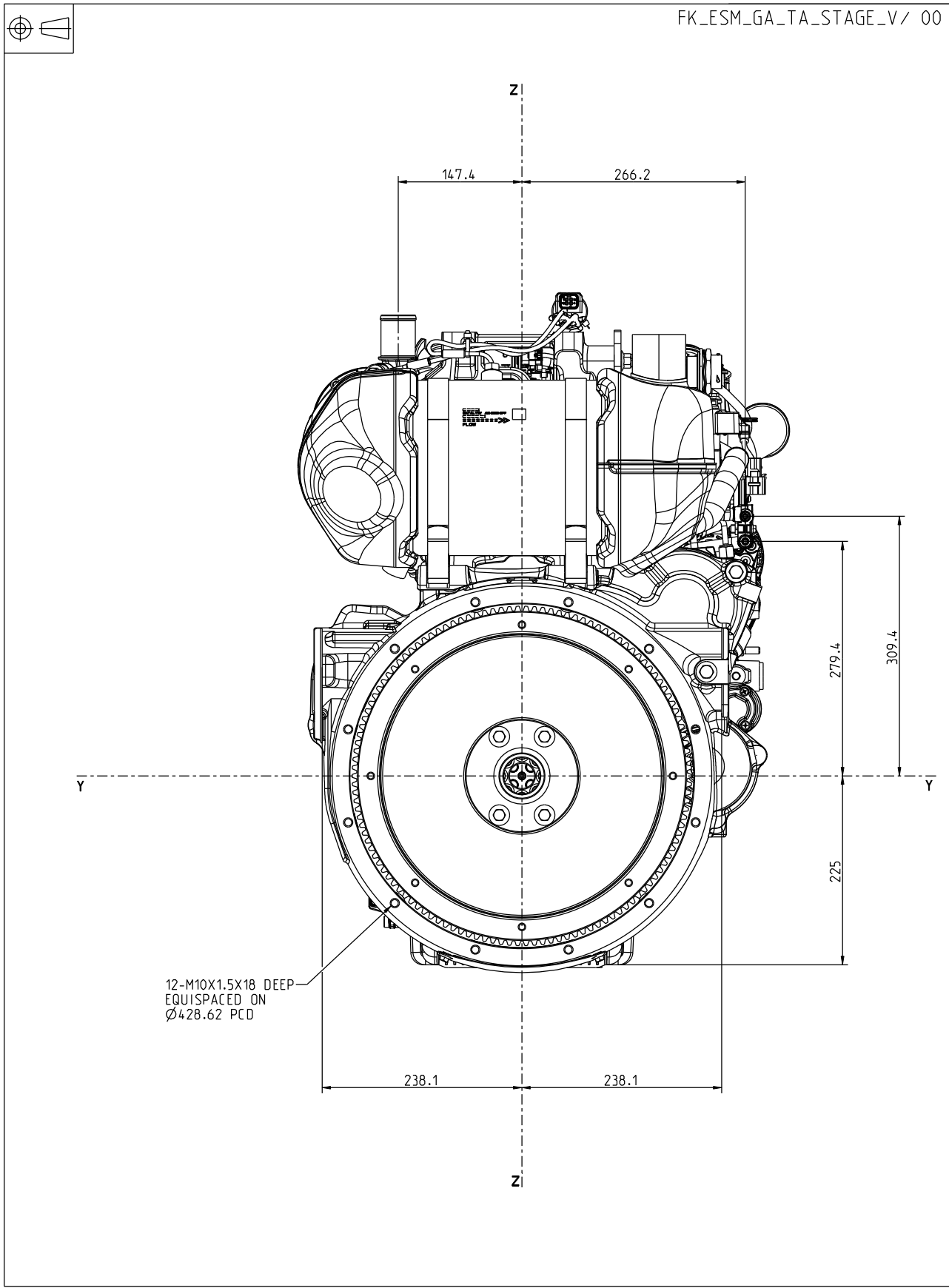








C2.8 (TA) - Plan view



C2.8

Models C2.8 (TA)

Cylinder arrangement	Vertical inline
Number of cylinders	4
Cycle	4 stroke
Induction system	Turbocharged, chargecooled
Combustion system	Direct injection
Bore	90 mm (3.54 in)
Stroke	110 mm (4.33 in)
Compression ratio	17:1
Cubic capacity	2.799 liters (170.8 in ³)
Firing order	1, 3, 4, 2
Rotation	Clockwise viewed from front
Basic thread form	Metric
Cooling system	Liquid

Overall dimensions for engine fitted with mounted aftertreatment

Length – DOC/DPF	827.5 mm (32.58 in)
Width – DOC/DPF	542.5 mm (21.36 in)
Height – DOC/DPF	785.5 mm (30.93 in)

Overall dimensions for engine only

Length (depending on flywheel housing)	633.1 mm - 706.5 mm (24.93 in - 27.81 in)
Width	542.5 mm (21.36 in)
Height	785.5 mm (30.93 in)

Weight

Dry weight of bare engine without aftertreatment	339.6 kg (747 lb)
Dry weight of engine with engine mounted aftertreatment – DOC/DPF	367.9 kg (810 lb)
Weight of coolant and lubrication oil	10.98 kg (24 lb)
Remote aftertreatment weight - DOC/DPF	19.0 kg (42 lb)

Notes:

- Calculated weights and dimensions to be confirmed.
- Weights include flywheel, flywheel housing, rotating electrics (C4006, D4006, E4101, F4005, N4101).
- Final weight will depend on the completed specification.

T4920 - AW402, 55.4 kW @ 2400 rpm

CATERPILLAR® Engine Model: C2.8 Caterpillar Inc. ©2021 Commercial in Confidence, proprietary information of Caterpillar Inc.		Curve: T 4920 Sheet 1 Issue: 4 Date: 4-Feb-2021 Development Target - May be Subject to Change
Rating Standards: ISO 14396: 2002 Production Tolerance On Power Output: +5%, -5% Total Barometric Pressure (kPa): 100 Vapour Pressure (kPa): 1 Air Inlet Temperature (°C): 25	Fuel Types: USA FED Off Highway Europe Off Highway Fuel Specification: EPA Part 1065.703 ULSD EU 2004/26/EC Stage 3B/4 Density (kg/l @ 15°C): 0.840 - 0.865 0.833 - 0.837 Viscosity (mm²/s @ 40°C): 2.0 - 3.2 2.3 - 3.3 Sulphur Content (% mass): 0.0007 - 0.0015 0.001 max Cetane No: 40 - 50	

Performance with fuel oil at 40°C at pump inlet.

Governing Key
E denotes electronic governing.

Notes: 1. For duty cycle refer to the C rating definition(s) in the Caterpillar Industrial Engine Ratings Guide. Auxiliaries fitted to engine: Alternator - off load. Fan - not fitted.	Exhaust Quality Standard	Certification Refs (Rated Speeds)
	Power Standard	Certification Refs (Rated Speeds)

Approved by: D. Mear (Program Manager) Date: 4-Feb-2021	Accepted by: J. Oxborough (Platform Engineering Manager) Date: 4-Feb-2021	Issued by: S.M. Ottaway (Legislation Engineer)
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