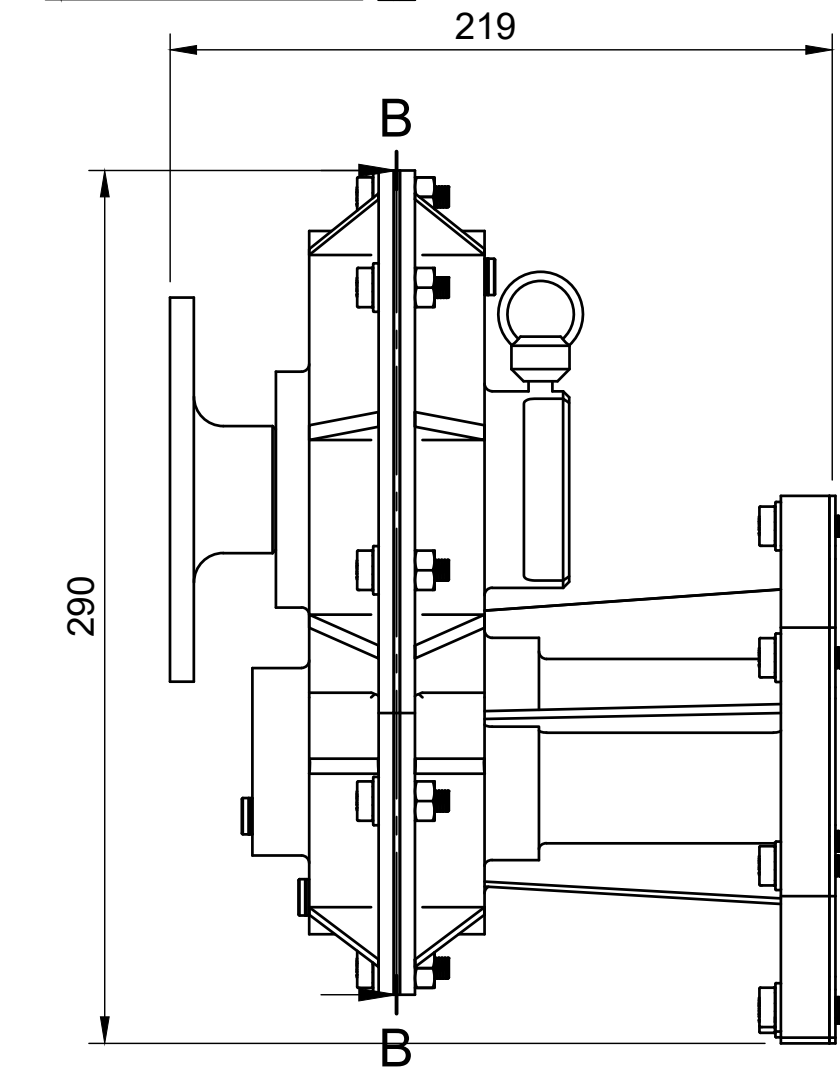
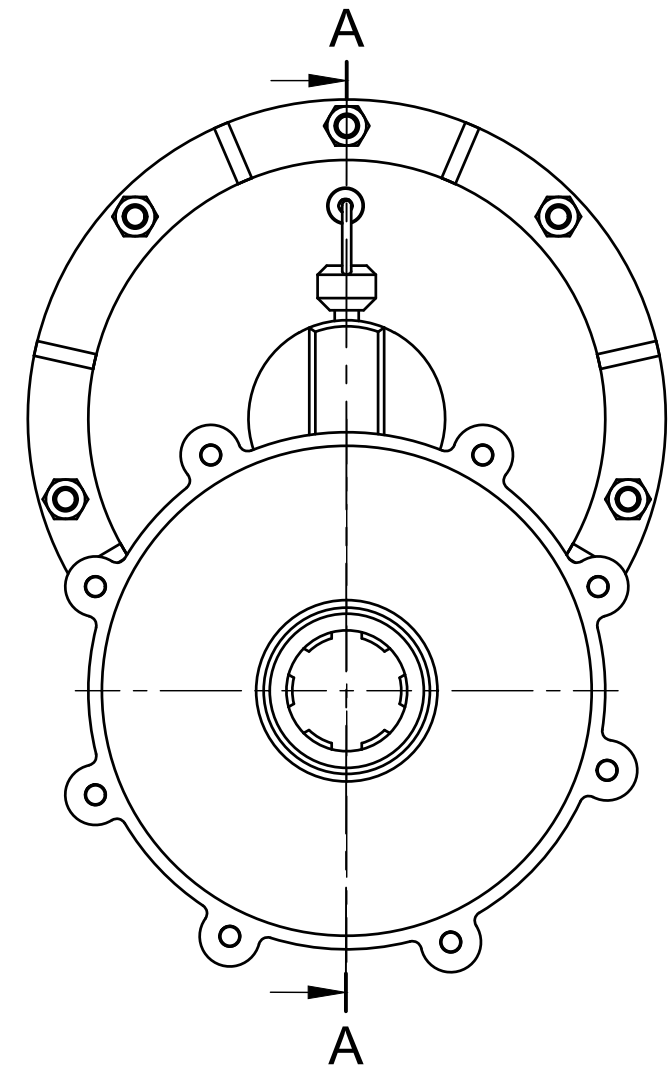
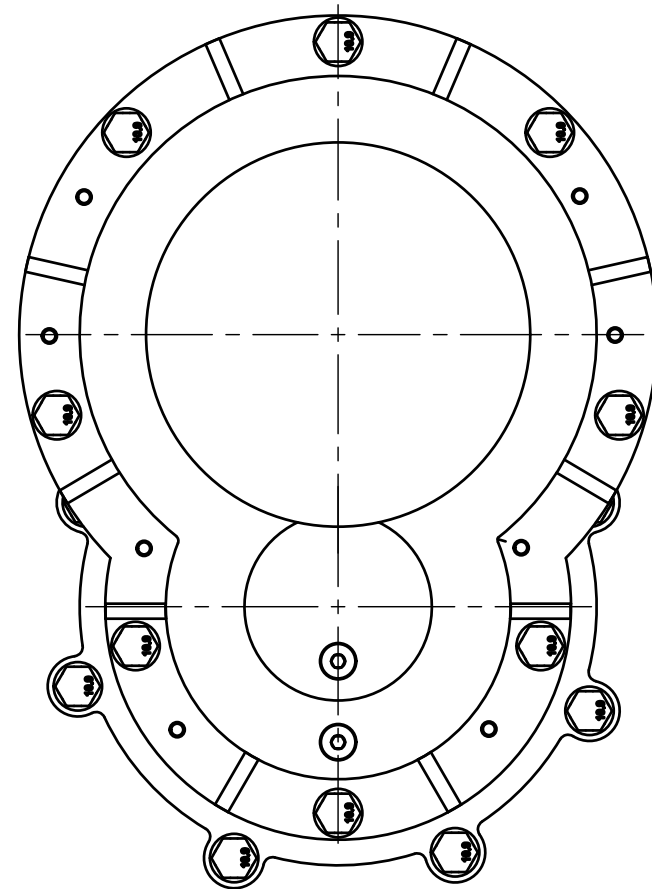



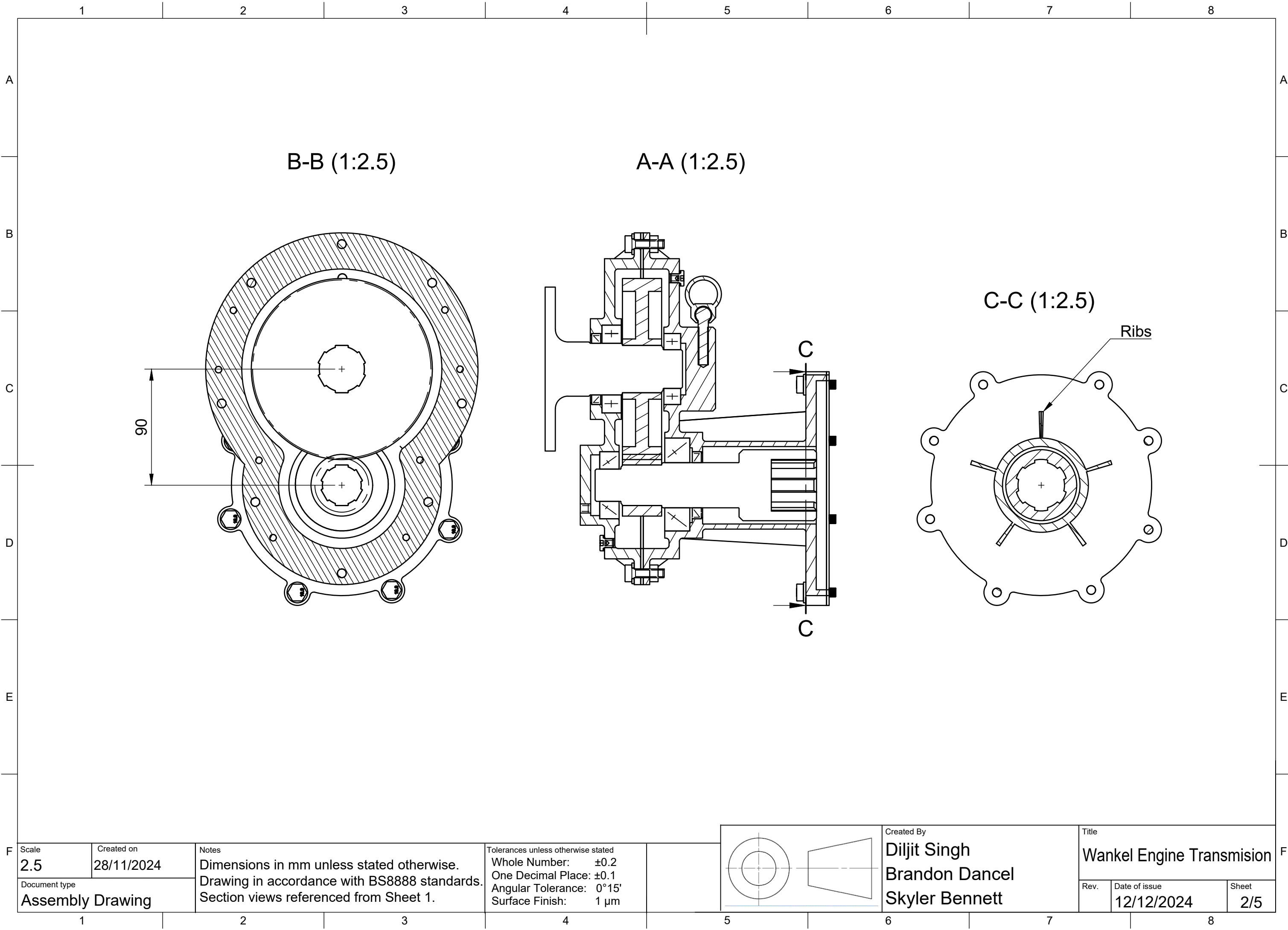
1. Screw mounting hook into the casing.
2. Hoist the hook.
3. Lower engine side casing towards engine mount.
4. Install all internal parts, and bolt boss side casing using M8 Bolts
5. Lower hoist and unscrew mounting hooks.

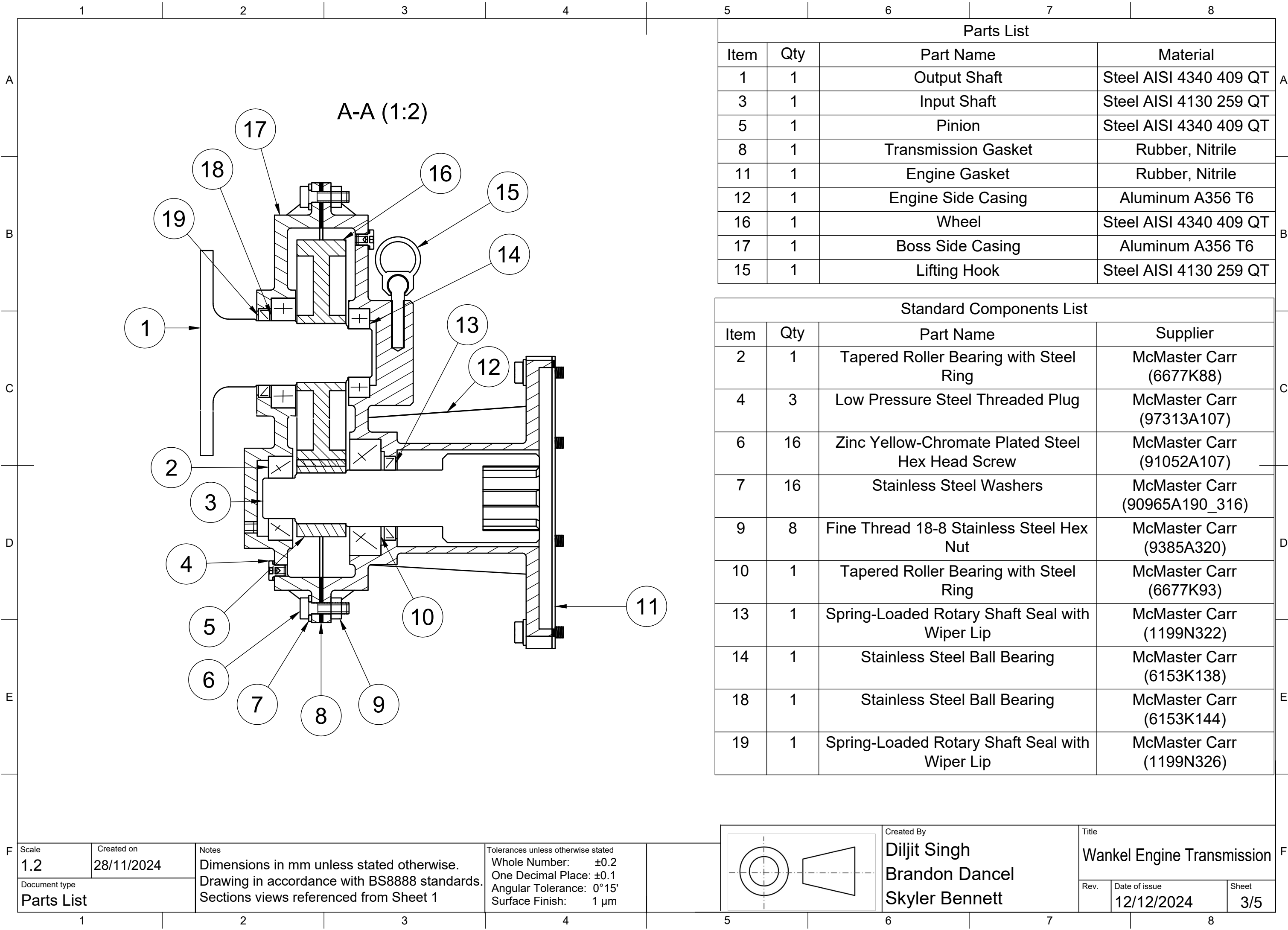


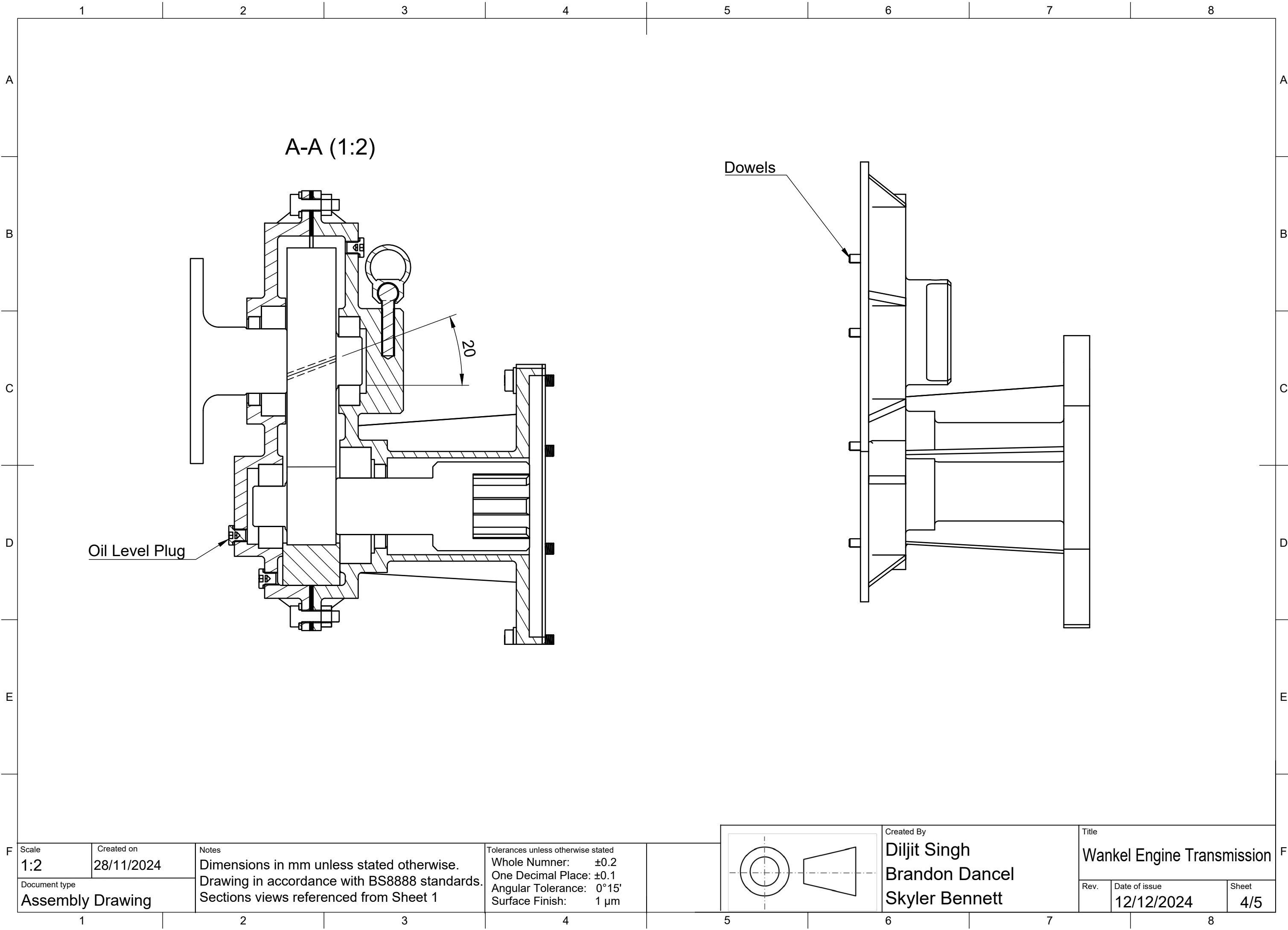
1. Lubrication is Rye Oil: Industrial Gear Oil 150. Expected 60 ml of Oil.
2. Ensure seals are aligned to prevent leakage of oil.
3. Check all components for manufacturing defects before installing.
4. Pregrease seals and gears prior to assembly.
5. Bearings and gears secured using an interference fit, ensuring a press-fit connection.
6. 22 ± 1 Nm of torque to tighten bolts.

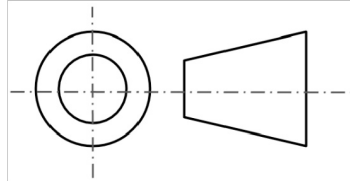


Scale 2.5	Created on 12/12/2024	Notes Dimensions in mm unless stated otherwise. Drawing in accordance with BS8888 standards. Section views showed on page 1	Tolerances unless otherwise stated Whole Number: ± 0.2 One Decimal Place: ± 0.1 Angular Tolerance: $0^{\circ}15'$ Surface Finish: $1 \mu\text{m}$	Dry Weight: 15.3 kg Wet Weight: 15.5 kg		Diljit Singh Brandon Dancel Skyler Bennett	Wankel Engine Transmission		
Document type Assembly Drawing							Rev.	Date of issue 12/12/2024	Sheet 1/5







Scale 1:2		Created on 28/11/2024	Notes Dimensions in mm unless stated otherwise. Drawing in accordance with BS8888 standards. Sections views referenced from Sheet 1	Tolerances unless otherwise stated Whole Numner: ± 0.2 One Decimal Place: ± 0.1 Angular Tolerance: $0^{\circ}15'$ Surface Finish: $1\text{ }\mu\text{m}$		Created By Diljit Singh Brandon Dancel Skyler Bennett	Title Wankel Engine Transmission		
Document type Assembly Drawing							Rev.	Date of issue 12/12/2024	Sheet 4/5

Changelog				
Revision	Part	Change	Justification	Date
1	Casing	Made the casing a lot smaller and compact	Help reduce the weight and the amount of material.	15/12/2024
2	Ribs	Added ribs to the external of the casing	To prevent distortion of casing and improve stiffness.	24/12/2024
3	Coupling	Change male coupling to female coupling	To reduce parts and the weight. More compact than a male coupling.	26/12/2024
4	Engine Gasket Seal	Added a gasket to the engine side casing	To ensure a tight connection between the transmission and engine, and to prevent leakages.	26/12/2024
5	Oil Level Plug	Added a level plug	To ensure that the oil is levelled with the gear teeth.	07/12/2024
6	Dowels	Added dowels to engine side casing	To help with locating the boss side casing and engine casing.	07/12/2024
7	Lifting Hook	Added a lifting hook that screws in and out	To make assembling the transmission easier.	10/12/2024

