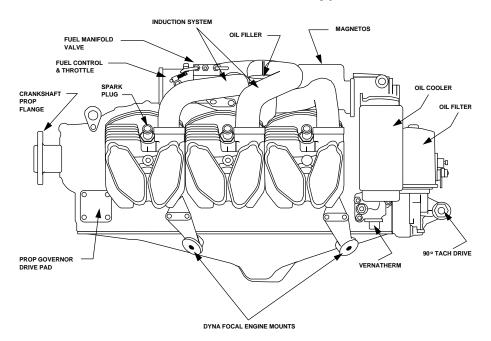
## **Type Certificate E3SO**



The IO-550-N is a six cylinder fuel injected air cooled engine producing 310 brake horsepower and has a crankshaft speed of 2700 RPM. The engine has horizontally opposed air cooled cylinders. The engine cylinders are cross flow design having overhead inclined valves. The cylinders have downdraft intake inlets mounted on the top of the cylinder head and downdraft exhaust outlets located on the bottom of the cylinder.

The IO-550-N engines have a 550 cubic inch displacement achieved by using a cylinder design with a 5.25 inch diameter bore and a 4.25 inch stroke. The engine enclosure is of the Permold series crankcase design. The dry weight of the engine is 412.0 lbs. without accessories. The average weight of the engine with installed accessories is approximately 467 lbs.

OVERALL ENGINE DIMENSIONS INCHES	
HEIGHT	20.41
WIDTH	34.04
LENGTH	38.43

## ENGINE SPECIFICATIONS ......IO-550-N Cylinders Compression Ratio......9.0:1 Stroke (Inches)......4.25 Brake Horsepower Rated Maximum Continuous Operation......310 BHP @ 2700 RPM **OPERATING LIMITS** Crankshaft Speed - RPM Fuel Oil **TEMPERATURE AVIATION** SAE GRADE **MULTI-VISCOSITY** GRADE BELOW 40 30 10W-30 / 15W-50 / 20W-50 ABOVE 40 100 50 15W-50 / 20W-50 / 20W-60 Oil Pressure Normal Operation, psi 30-60 100 Oil Temperature Limits Minimum for Take-Off......75° F Cylinder Head Temperature Ignition Timing (Compression Stroke, Breaker Opens) Right Magneto, Degrees BTC......22° Left Magneto, Degrees BTC ......22°



Spark Plug