

Engine Data Sheet



Serial # _____

Date _____

1/4 scale Zenoah G230RC Maintenance Specifications

	Items	Standard	Limit	Measuring Device	Actual/Data
Cylinder	Compression (kg/cm²) Psi	8.8 125 psi	7.3 103 psi	Compression Gage	
	Bore (mm) inch	Ø32 1.25984	Plating damaged	Eye Checking	
Piston	Diameter (mm) inch	Ø31.97 1.25865	Ø31.87 1.2547	Micro Meter	
	Piston Ring Groove width (mm)	1.01 .04330	1.11 .04370	Thickness Gauge	
	Piston Pin Hole (mm) inch	Ø8.01 .031535	Ø8.05 .031692	Cylinder Gauge	
	Clearance between Piston and Cylinder (mm) inch	0.03-0.06 .00118- .00236	0.15(mm) .0059	Micro Meter Cylinder Gauge	
	Clearance between Groove and Piston Ring (mm) inch	0.02-0.04 .0008 .0016	0.1 .03937	Thickness Gauge	
Piston Ring	End Gap (mm) inch	0.05-0.25 .00196	0.5 .01968	Thickness Gauge new cylinder	
	Width (mm) inch	0.98 .03858	0.93 .03661	Micro Meter	
Piston Pin Diameter (mm) inch		Ø8 .31496	Ø7.98 .31417	Micro Meter	
Connecting Rod Small end (mm) inch		Ø11 .43307	Ø11.05 .43503	Cylinder Gauge	
Crankshaft Dia. at Main Bearing (mm) inch		Ø12 .4724	Ø11.98 .4716	Micro Meter	
	Eccentricity (mm) inch	-	0.07 .0027	Dial Gauge	
	Axial Play (mm) inch	-	0.5 .01968	Thickness Gauge	
	Main Bearing	-	Gritty or Feels Flat Spot	-	

UNIT CONVERSION CHART

Length

$$1 \text{ mm} = 0.03937 \text{ in}$$

$$1 \text{ in} = 25.4 \text{ mm}$$

$$\begin{aligned} \text{Example: } 60 \text{ mm} \times 0.03937 &= 2.36 \text{ in} \\ 3 \text{ in} \times 25.4 &= 76.2 \text{ mm} \end{aligned}$$

Pressure

$$1 \text{ kg/cm}^2 = 14.223344 \text{ psi}$$

$$1 \text{ psi} = 0.070307 \text{ kg/cm}^2$$

$$1 \text{ kg/cm}^2 = 98.0665 \text{ kPa}$$

$$1 \text{ kPa} = 0.0101972 \text{ kg/cm}^2$$

$$\begin{aligned} \text{Example: } 10 \text{ psi} \times 0.070307 &= \text{about } 0.7 \text{ kg/cm}^2 \\ 0.7 \text{ kg/cm}^2 \times 98.0665 &= 69 \text{ kPa} \end{aligned}$$

Temperature

$$(\text{ ___ } ^\circ \text{C} \times 1.8) + 32 = \text{ ___ } ^\circ \text{F}$$

$$(\text{ ___ } ^\circ \text{F} - 32) / 1.8 = \text{ ___ } ^\circ \text{C}$$

$$\begin{aligned} \text{Example: } (750 ^\circ \text{C} \times 1.8) &= 1350 \\ &= 1350 + 32 = \text{about } 1380 ^\circ \text{F} \end{aligned}$$

$$\begin{aligned} (190 ^\circ \text{F} - 32) &= 158 \\ &= 158 / 1.8 = \text{about } 87.8 ^\circ \text{C} \end{aligned}$$

Torque

$$1 \text{ kg-m} = \text{about } 7.2330139 \text{ ft-lb}$$

$$1 \text{ ft-lb} = 0.138255 \text{ kg-m}$$