

Carrier/Carlyle 5F Compressor Wear Limits

PART	FACTORY MAX	FACTORY MIN	MAX WEAR
Seal End			
Main bearing (5F20, 30)	1.6264	1.6250	.002
Main bearing (5F40, 60)	2.0636	2.0618	.001
Crankshaft journal (5F20, 30)	1.6240	1.6233	.003
Crankshaft journal (5F40, 60)	2.061	2.060	.002
Bearing washer thickness	.131	.129	*
Thrust washer thickness	.157	.155	*
Pump End			
Main bearing (5F20, 30)	1.6264	1.6250	.002
Main bearing (5F40, 60)	1.6264	1.6250	.001
Crankshaft journal	1.6240	1.6233	.002
Bearing washer thickness	.131	.129	*
Connecting Rod			
Bearing diameter	1.6255	1.6245	.002
Bearing thickness	-	.06225	.001
Crankshaft crankpin	1.6240	1.6233	.003
Cylinders			
Bore	2.501	2.500	.003
Piston	-	2.4980	.003
Piston pin	-	.7498	.001
Piston pin bushing	.7500	-	.001
Piston ring end gap	.009	.004	.030
Compression ring side clearance	.0015	.0005	.003
Oil ring side clearance	.0012	.0002	
Oil Pump			
Axial clearance	.0015	.0005	.0025
Drive shaft	.4361	.4356	-
Drive shaft bushing ID	.4375	-	-
Suction Valve			
Depth of wear below face	-	-	.005
Seat	-	.012	.002
Discharge Valve			
Depth of wear below face	-	-	.005
Seat	-	.012	.002
End Clearance			
* Replace thrust and bearing washers when end clearance exceeds maximum listed			
Crankshaft End Clearance			
5F20-60 .011 to .035			

All dimensions are in inches.

Carrier/Carlyle 5H Compressor Wear Limits

PART	FACTORY MAX	FACTORY MIN	MAX WEAR
Seal End			
Main bearing	2.6278	2.6250	.001
Crankshaft journal	2.6235	2.6225	.002
Bearing washer thickness	.188	.186	*
Thrust washer thickness	.188	.186	*
Pump End			
Main bearing	2.2530	2.2502	.001
Crankshaft journal	2.249	2.248	.002
Bearing washer thickness	.188	.186	*
Center (5H80, 86, 120, 126)			
Main bearing diameter	2.6264	2.6250	.001
Main bearing thickness	-	.0942	.001
Crankshaft journal	2.6235	2.6225	.002
Connecting Rod			
Bearing diameter	2.2505	2.2495	.002
Bearing thickness	-	.06225	.001
Crankshaft crankpin	-	2.248	.002
Cylinders			
Bore	3.2515	3.2505	.003
Piston (steel)	3.2485	3.2480	.003
Piston body (aluminum)	3.241	3.240	.003
Piston ring groove (aluminum)	3.235	3.232	.003
Piston pin diameter	-	.9998	.001
Piston pin bushing	1.000	-	.001
Piston ring end gap	.017	.007	.030
Compression ring side clearance	.0015	.0005	.003
Oil ring side clearance	.0012	.0002	
Oil Pump			
Axial clearance	.0015	.0005	.0025
Drive shaft	.4361	.4356	-
Drive shaft bushing ID	.4375	.4370	-
Shaft diameter (5H120, 126)	.6250	.6240	-
Shaft bushing ID (5H120, 126)	.6270	.6260	-
Suction Valve			
Depth of wear below face	-	-	.005
Seat	-	.012	.002
Discharge Valve			
Depth of wear below face	-	-	.005
Seat	-	.012	.002
End Clearance			
* Replace thrust and bearing washers when end clearance			

All dimensions are in inches.

Carrier/Carlyle 5H Compressor Wear Limits

PART	FACTORY MAX	FACTORY MIN	MAX WEAR
exceeds maximum listed			
Crankshaft End Clearance			
5H40,46 .010 to .036			
5H60,66 .011 to .037			
5H80,86 .014 to .042			
5H120,126 .014 to .044			

All dimensions are in inches.