

TECHNICAL BULLETIN

TB NO. 1029
REV. 0

**Subject: Maintenance Programs
for Ajax Integral Engine Compressors**

The basic intent of any maintenance program is for unit protection to prevent major failures, insure on-line availability and to maintain cost of operating at a reasonable level per brake horsepower per year.

Each application must be reviewed and considerations would include: (1) annual operating hours, (2) load and general operating conditions, (3) importance of on-line availability, (4) manpower and (5) budgets.

The attached programs are typical for Ajax integral gas engine compressors operating under normal conditions. Please refer to each program as a reminder of important items which should be included in your existing programs. The actual intervals of service may vary dependent on your application or abnormal conditions such as load, fuel gas constituents, ambient temperatures, etc.

If you need additional copies, have any questions or desire additional information, please contact **EnDyn's** Technical Service Department or your local authorized **PowerParts®** Distributor.

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MAINTENANCE PROGRAM

(Typical For Ajax Intergral Engine Compressors)

ITEM	SERVICE	Daily / As Required	1000	2000	4000	8000	30000
			Hours	Hours	Hours	Hours	Hours
Operating Temperatures	Log Data	X					
Operating Pressures	Log Data	X					
Load & RPM	Log Data	X					
Air Breathers	Check Differential	X					
Water Level	Check	X					
Lube Oil Level	Check	X					
Lube Oil Consumption	Check	X					
Gas Injection System	Check/Fill Fluid	X					
Starter Lubricator	Fill	X					
Force Feed Lubricator	Check Level & Rate	X					
Leaks	Check/Repair	X					
Control Linkage	Lubricate	X					
Fuel Volume Tank	Drain Liquids	X					
Spark Plugs	Replace		X				
Ignition System	Check/Repair As Needed		X				
Cooler & Water Pump Drive Belts	Check		X				
Air Breathers	Clean/Replace Oil or Element		X				
Fuel System	Check/Adjust Pressure		X				
Mixer Valves	Check/Repair as Needed		X				
Gas Injection System	Check/Repair as Needed		X				
Injection Valves	Grease		X				
Power Cylinder Heads	Retorque Head Studs		X				
Fan Shaft Bearings	Lubricate		X				
Auxiliary Water Pump	Lubricate Bearings		X				
Compressor Valves	Check/Record Temperature		X				
Scavaging Chambers	Check/Drain		X				
Scrubber Liquid Level Control	Check For Proper Operation		X				
Safety Shutdowns	Test/Adjust			X			
Lube Oil	Analyze			X			
Magneto	Check Drive Coupling				X		
Cylinder Heads	Decarbon				X		
Power Piston	Decarbon Crown				X		
Power Cylinder	Decarbon Ports				X		
Cooler	Inspect Tube Fins (external)				X		
Crankcase Lubrication	Drain, Wipe Crkcase, New Oil					X	
Rod & Main Bolts	Retorque					X	
Power Cylinders	Decarbon, Hone, Record I.D.					X	
Power Pistons	Decarbon/Install W/New Rings					X	
Crossheads, Pins, Bushings, Etc.	Check/Record Clearances					X	
Jacket Water Thermostat	Test Elements					X	
Secondary Ignition Wires	Replace					X	

ITEM	SERVICE	Daily / As Required	1000	2000	4000	8000	30000
			Hours	Hours	Hours	Hours	Hours
Magneto	Replace					X	
Power-End Wiper Gland	Replace Packing					X	
Gauges and Controls	Repair As Needed/Calibrate					X	
Compressor Cylinder Bores	Clean/Record I.D.					X	
Compressor Pistons	Check OD/Install New Rings					X	
Compressor Piston Rod	Check OD/Rod Run-Out					X	
Pressure Packing Glands	Replace Packing					X	
Compressor Valves	Replace Plates And Springs					X	
Auxiliary W/Pump	Repair As Needed					X	
Starter	Repair As Needed					X	
Anchor Bolts	Retorque					X	
Main Bearings	Check Clearance					X	
Rod Bearings	Check Clearance					X	
Gaskets & Seals	Replace						X
Rod Bearings	Replace						X
Main Bearings (sleeve type)	Replace						X
Main Bearings (roller type)	Check/Replace As Needed						X
Crosshead Pin Bushings	Replace						X
Crosshead Pins	Check/Replace As Needed						X
Wiper Glands	Rebuild Complete						X
Power Cylinders	Repair As Needed						X
Power Pistons	Replace As Needed						X
Gas Injection System	Rebuild Vlv, Pump, Actuator						X
Mixer Valves	Resurface & Replace All Pts.						X
Layshaft	Check & repair As Needed						X
Muffler	Check/Clean As Needed						X
Governor	Repair As Needed						X
Force Feed Lubricator	Repair As Needed						X
Compressor Cylinder Bores	Hone/Repair As Needed						X
Compressor Piston Rods	Repair/Replace As Needed						X
Packing Glands	Rebuild/New Packing						X
Compressor Valves	Rebuild/New Parts						X
VVP's	Repair As Needed						X
Compressor Piston	Clean/Replace W/New Rings						X
Auxiliary Water Pump	Rebuild						X
Belts	Replace						X
Scrubber Dump Valves & Pilots	Rebuild						X
Controls	Check/Repair/Replace As Req						X
Cooler	Rod-Out/Clean All Sections						X
Fan & Drives	Check/Repair As Needed						X
Regulators (fuel, process, etc.)	Check/Repair As Needed						X
Relief Valves	Check/Repair/Calibrate						X
Overspeed	Check Switch & Plunger						X
Hoses	Replace All Hoses						X