

TECHNICAL BULLETIN

TB NO. 1030
REV. 0

Subject: Maintenance Programs for Ajax Engines

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 gas engines 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.

2-24-98

MAINTENANCE PROGRAM

(Typical For Ajax Gas Engines)

ITEM	SERVICE	Daily / As Required	1000 Hours	2000 Hours	4000 Hours	8000 Hours	30000 Hours
Jacket Water Temperature	Log Data	X					
Fuel Pressure	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 (If Applicable)	Check/Fill Fluid	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				
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 (If Applicable)	Check/Repair as Needed/Grease Inj. Valve		X				
Cylinder Heads	Retorque Head Studs		X				
Fan Shaft Bearings	Lubricate		X				
Water Pump (If Applicable)	Lubricate Bearings		X				
Scavaging Chambers	Check/Drain		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		
Radiator	Inspect Core				X		
Crankcase Lubrication	Drain, Wipe Crankcase, 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 (If Applicable)	Test Elements					X	
Secondary Ignition Wires	Replace					X	
Magneto/Alternator	Replace					X	
Wiper Gland	Replace Packing					X	
Gauges and Controls	Repair As Needed/Calibrate					X	
Starter (If Applicable)	Repair As Needed					X	

ITEM	SERVICE	Daily / As Required	1000 Hours	2000 Hours	4000 Hours	8000 Hours	30000 Hours
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 (If Applicable)	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
Belts	Replace						X
Controls	Check/Repair/Replace As Req						X
Radiator	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

Twin Disc Clutches (If Applicable)

Pilot Bearing	Grease		X				
Main Bearing	Grease		X				
Control Shaft	Grease		X				
Pressure Plate	Adjust				X		
Drive Ring	Inspect/Replace As Needed					X	
Drive Plates	Inspect/Replace As Needed					X	
Drive Shaft	Check Thrust/Adjust As Needed					X	
Drive Ring	Check/Replace As Needed						X
Adjusting Lock Pin Spring	Check/Replace As Needed						X
Lever Pins	Check/Replace As Needed						X
Hub & Back Plate	Check/Magnaflux or Dye Check/Replace As Needed						X
Pilot Bearing	Replace						X
Drive Plates	Replace						X
Roller Bearing	Replace						X
Camrol Bearings	Replace						X
Detent Roller	Replace						X