

AIR DRYER TROUBLE SHOOTING GUIDE



AIR DRYER IS CONSTANTLY CYCLING OR PURGING

- 1 Test fitting, hoses, lines and connections with a soapy water. Tighten or replace as necessary.
- 2 Test accessories that are connected to supply reservoir.
- 3 Test governor for leakage, either internal or external leak.
- 4 Test outlet check valve on air dryer.
- 5 be sure dryer application is correct if you have QE or E-type Cummins Engine.

AIR DRYER DOES NOT PURGE OR EXHAUST

- 1 Missing, broken, kinked, frozen, plugged or disconnected purge valve control line.
- 2 Faulty air dryer purge valve.

AIR DRYER PURGE PISTON CYCLES RAPIDLY DURING COMPRESSOR UNLOADING CYCLE

- 1 Compressor is failing to unload, check unloader.

POP OFF VALVE IS BLOWING AT THE AIR DRYER OR THE AIR COMPRESSOR

- 1 Restrictions between air dryer and supply reservoir
- 2 Dryer cartridge needs to be serviced.
- 3 Discharge line from the compressor to the air dryer plugged or frozen
- 4 Malfunction of the safety valve.

CONSTANT EXHAUST OF THE PURGE VALVE

- 1 Purge valve internal leak.
- 2 Compressor failing to unload
- 3 Purge control line connected to wrong place, reservoir or wrong port on governor.
- 4 Purge valve frozen open, check heater is working.

CANNOT BUILD SYSTEM AIR PRESSURE

- 1 Inlet and outlet connections are reversed.
- 2 The check valve between the dryer and first tank may be restricted.
- 3 Kinked or blocked discharge line.
- 4 Excessive bends in discharge line, oil turns to carbon in line, water freezes in line between compressor and first tank.

OIL PRESENT AT THE AIR DRYER

- 1 Time for regular maintenance.
- 2 Air compressor needs repair.
- 3 Remember some oil is normal, if oil is getting past dryer to first air tank ,compressor repair must be done and air dryer serviced.

DESICCANT MATERIAL BEING EXPELLED FROM AIR DRYER OR BECOMES PASTE LIKE APPEARANCE

- 1 Air dryer not securely mounted to frame causing vibration.
- 2 Malfunction or saturated desiccant.
- 3 Compressor passing excessive oil.
- 4 Chemicals such as alcohol added to discharge line before the air dryer.

NOISE IN AIR DRYER DURING COMPRESSOR CHARGING CYCLE

- 1 Defective check valve in air dryer.
- 2 Leaking turbo cut-off valve.
- 3 Leaking purge valve control piston o -ring