

The following document is used in conjunction with the **puraDYN**[®] Bypass Oil Filtration System Installation Manual (PFT8 through PFT60) that is included in the unit box, and as such, should be considered a supplemental source of information. Further, this document covers the installation of a PFT24 Bypass Oil Filtration unit on a Mack Concrete Mixer with an E7 engine, owned by Florida Rock Inc. (see **PICTURE 1**)



PICTURE 1

The PFT24 Bypass Oil Filtration unit is mounted to the inside of the mixer housing by way of an “S” Type mounting plate. Locate centerline of supplied “S” mounting plate on inner surface of the mixer housing. Mark, center punch and drill three ¼” diameter holes through mixer housing and attach “S” mounting plate with supplied ¼” x 1 1/2” long hex bolts, flat washers and nuts as shown in **PICTURES 2 & 3**.



PICTURE 2



PICTURE 3

Orient and attach PFT24 Bypass Oil Filtration unit to “S” mounting plate with supplied “W” and “C” clamps, spacers, ¼-20 x 1” long hex bolts, flat washers and nuts as shown in **PICTURES 4 & 5**.



PICTURE 4



PICTURE 5

Remove the 1/8" oil pressure plug on the passenger side of the engine, install supplied adapter and bussing and 90° shut-off valve into engine block and install oil pressure line to 90° fitting as shown in **PICTURES 6 & 7**.

**PICTURE 6****PICTURE 7**

Connect pressure supply line from the shut-off valve to the PFT24 Bypass Oil Filtration unit as shown in **PICTURES 8** Caution! Hose routing should not come in contact with any moving parts, sharp edges or hot exhaust manifold.

**PICTURE 8**

Route supplied vent hose down and between the lower "W" clamp, connect to vent valve assembly, cut to length and tie-wrap in place as shown in **PICTURE 9**.

**PICTURE 9**

After draining the engine oil and cleaning all surfaces, install supplied $\frac{3}{4}$ " M.P x $\frac{3}{4}$ " JIC fitting to the bottom of the PFT24 unit **PICTURE 10** Remove the oil pan drain port on the passenger side and install the 1" x $\frac{3}{4}$ " bushing and $\frac{3}{4}$ " x $\frac{3}{4}$ " 90° fitting. Note: Properly orient the fitting in order to avoid damage from road debris. Route and connect the oil return hose from the PFT24 Bypass Oil Filtration unit to the pan fitting and secure with tie wraps as shown in **PICTURES 10 & 11**. Cover oil return hose with secondary hose (or equivalent) to protect it from getting damaged, as required. Caution! Hose routing should not come in contact with any moving parts, sharp edges or hot exhaust manifold.



PICTURE 10



PICTURE 11

Route and connect one electrical wire to Fuse box under hood using supplied electrical hardware and in-line fuse holder as shown in **PICTURES 12**. Route and connect one wire (using supplied electrical hardware) to ground bolt as shown in **PICTURES 13**. Caution! Wire routing should not come in contact with any moving parts, sharp edges or hot exhaust manifold.



PICTURE 12



PICTURE 13

Fill engine with oil. Start engine and check all connections for oil leaks. Open metering jet sample valve and verify that oil flow is present. After five minutes of engine operation, touch the bottom center of the PFT Bypass Oil Filtration unit and verify that it is warm to the touch. Shut engine off and check oil level. Place **puraDYN**® Installation Manual (PFT8 through PFT60) in the documentation holder mounted on the inner right hand side service door.