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SERVICE BULLETIN

VIBRATORY HAMMERS • POWER UNITS/AUGER SYSTEMS • DIESEL & HYDRAULIC HAMMERS
DRILL RIGS • HYDRAULIC PILING RIGS • WICK DRAIN INSTALLERS • LEAD SYSTEMS

Jun. 17, 2015



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#19 Benefits of Hydraulic Filters.

This bulletin will explain the reasons we install hydraulic filters. I will be covering two different locations chosen for filters to be installed. The first location is the power unit, the second is the tool that the power unit is running.

POWER UNIT PRESSURE FILTERS

There are two different locations that filters are installed on the new power units:

#1) The kidney loop filter sits above the sight glass. This filter many of you are quite familiar with, since it is on all APE power units already. This filter continuously filters the oil that is circulated through the recirculation pump. The recirculation pump pushes oil through the radiator and back through this filter before going back to tank.

#2) The new and second location will be installed right after the drive pumps. This will filter the oil before it goes through the drive manifold. Since all pumps continually shed contaminants into the oil in normal operation, this filter will ensure that oil going through the drive manifold and out to the tool will be as clean as possible. This is important because the piston motors we use on our tools are sensitive to contaminants. This also means that as long as the power unit is running it will be continuously filtering the oil back to tank.

TOOL PRESSURE FILTERS

We are now installing pressure filters on top drive drills. The main reason we install these filters is to protect against contaminants that enter through the Q.D.s being connected dirty. These filters are installed before the drill manifold, and motor. The filters also have a reverse free flow check valve. This means that the filters clean the oil going to the drill motor and manifold, and let oil flow freely without filtration back to the power unit. Another benefit is whenever the tool is running the oil is being cleaned.

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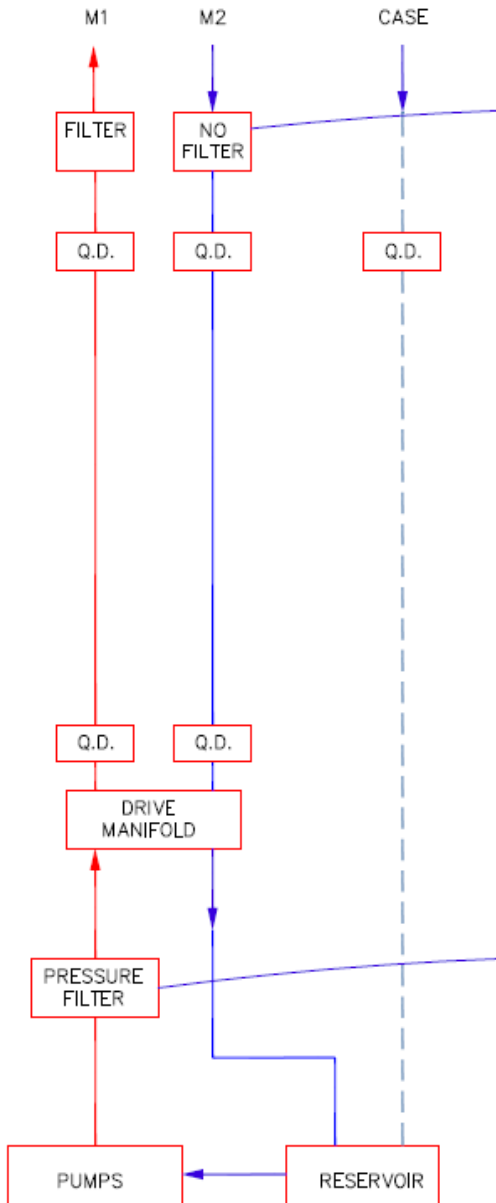
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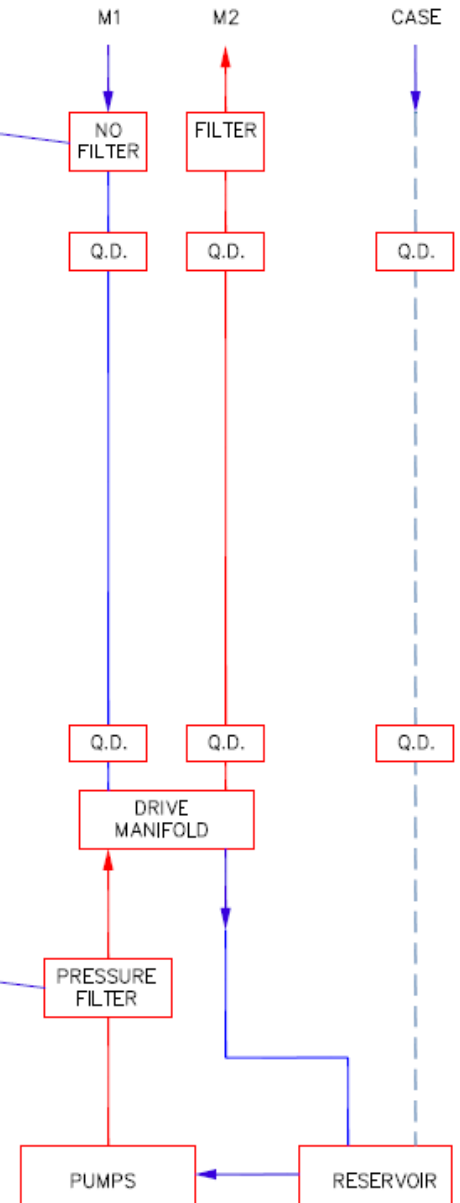


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DRILL MOTOR
DRIVE DIRECTION



DRILL MOTOR
REVERSE DIRECTION



DRILL FILTERS (ONE FOR EACH DIRECTION) ARE PROTECTING THE DRIVE MOTOR FROM ANY CONTAMINANTS THAT MAY HAVE ENTERED THE SYSTEM VIA THE HOSE BUNDLE Q.D.'S, AND/OR A POWER UNIT THAT DOES NOT HAVE ADEQUATE FILTRATION

PRESSURE FILTER IS PROTECTING THE DRIVE MANIFOLD FROM ANY CONTAMINANTS THAT HAVE RETURNED TO THE RESERVOIR FROM THE DRILL AND THE HOSE BUNDLE

NOTE:
GEAR PUMPS ARE FAIRLY DIRT TOLERANT
PISTON PUMPS ARE NOT

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