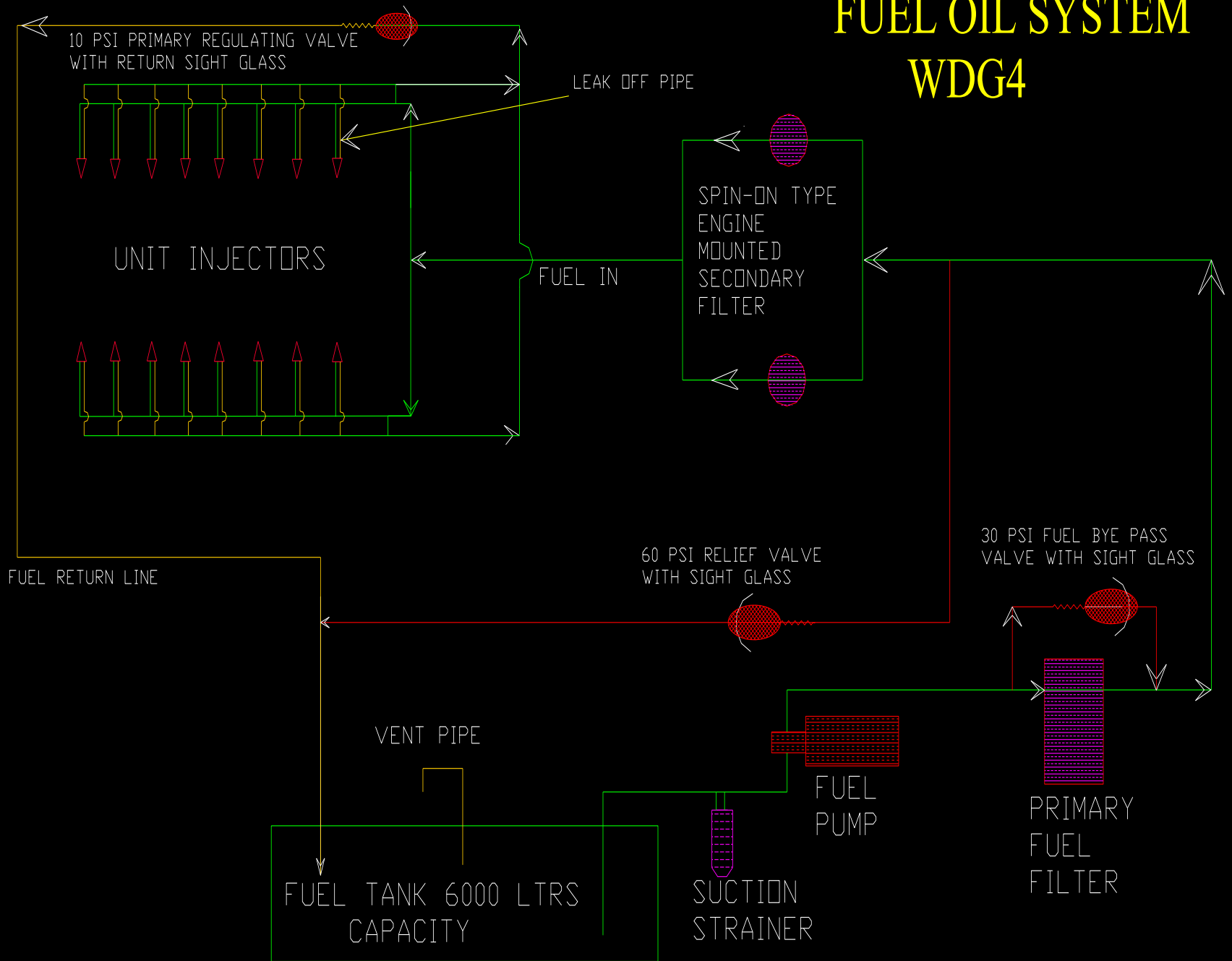


FUEL OIL SYSTEM OF WDG4

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FUEL OIL SYSTEM WDG4



Fuel oil system is designed to supply fuel oil to the engine in **correct quantity, correct pressure and at the right time** according to the engine requirements.

The fuel oil system draws fuel oil from fuel tank, filter the fuel, pressurize the fuel, and inject the fuel into the engine in correct quantity in atomized condition.

Fuel oil system is divided into two parts.

1. Fuel feed system.
2. Fuel injection system.

1. Fuel feed system.

The Fuel is drawn from the fuel oil tank through a suction strainer by the Fuel pump.

Fuel then goes to primary fuel filter.
It is provided with a 30 PSI bye pass valve
with sight glass.

whenever the primary filter is choked / clogged and the pressure difference reaches 30 PSI, this bye pass valve open allowing the fuel oil directly to the system, which can be noticed by the flow of bye – pass fuel in the sight glass.

The fuel then passes to Two engine mounted secondary filters. Which are of spin-on type.

Secondary fuel filters are also provided a relief valve. Which is set at 60 PSI.

From the secondary filters the fuel oil is supplied to all unit injectors through fuel supply manifolds (left & right).

At end of the fuel supply manifold, a regulating valve with sight glass is provided, which is set to 10 PSI.

Fuel injection system :

Fuel supplied by the fuel system is always readily available at all the unit fuel injectors.

When engine is started according to the timings individual unit injectors will pressurizes and injects the fuel in to the cylinders in atomized form.

These fuel injectors are operated by overhead cam and fuel rocker arm mechanism.

The quantity of the fuel injected will be controlled by the engine mounted wood ward Governor according to the notch and load condition.

THANK YOU