



ABEAR'S FUEL & FLUIDS

P.O. BOX 3277
SAN JOSE, CA 95156

PH (408) 226-4731
FX (408) 226-4957

February 1, 1995

To: Mr. Bob Fox
Vice President
RCI Purifier West

RC 600 Diesel Purifier Test.

On January 30 & 31 1995 conducted test for water removal.

To test the purifier the RCI demonstration kit was used.

Test No. 1

1. Removed 10 micron spin-on filter from the system.
2. Using 3500 ML of clean fuel, filled the system. Saturated this fuel with 175 ML of water, which is 5% of the total volume.
3. Removed the return line from the supply tank and placed it in a 1000 ML bicker to capture the returning fuel after it had passed through the purifier one time only.
4. The returned fuel in the bicker was checked for visible signs of water. There was not any visible free water.
5. Performed B S & W spin test for emulsified waters in the fuel. Again the test was negative.
6. Drained the purifier into a clean 1000 ML bicker. It registered 175 ML of water with the rest fuel.

Test No. 2

1. A 1000 ML bicker was filled with 600 ML of diesel fuel and 400 ML of water. (Water equals 40% of total volume.)
2. With the return line placed in a clean 1000 ML bicker to capture the returning fuel after going through the system one time. The returned sample was free of any visible water. Performed the B S & W spin test on this sample no water registered.
3. Drained purifier into a clean 1000 ML bicker. Water measured at 369 ML, with the rest fuel. Without the spin-on filter in the system, the only way to capture 99.9% of the water with 4% clinging to the walls of the purifier and fuel lines between fuel tank and purifier.

Test No. 3

1. Installed a new clean 10 micron spin-on filter.
2. Filled system with new clean diesel fuel.
3. Turned on system, circulating the diesel fuel. While system was operating added 400 ML of water. Let system run for 30 minutes.
4. Drained purifier into clean 1000 ML bicker, removing 1000 ML of fluid from purifier. Free water content measured 400 ML and diesel measured 600 ML.
5. Removed spin-on filter and emptied into a clean pan. Water droplets were visible. Emptied contents of pan into a clean bicker.
6. Using a mixer blended the water and fuel until all water was emulsified into the fuel.
7. Taking samples of the mixed water and fuel, performed B S & W spin test for seven minutes.
8. The results were 1/10 of 1% of the sample was water.

From these test it has been determined that the fuel delivered from the RCI Purifier system, contains no free water.

Sincerely,

(Signed)

David J. Hebert
General Manager
ABEAR'S FUEL & FLUIDS