



Mobile Analytical Laboratories

LABORATORIES IN ODESSA, GIDDINGS & STACY DAM

WEST UNIVERSITY AND WESTOVER STREET

P.O. BOX 60210

ODESSA, TEXAS 79769-0210

PHONE 337-4744

JANUARY 27, 1993

LIC. L. ALFREDO MONTEMAYOR UZETA
DIESEL PURIFIER DE MEXICO, S.A. DE C.V
VILLAGOMEZ 601 NTE.
MONTERREY, N.L., MEXICO. C.P. 64000

DEAR SIR:

AT YOUR REQUEST, MOBILE ANALYTICAL LABORATORIES HAS TESTED THE RCI DIESEL FUEL PURIFIER AS RECEIVED ON MAY 22, 1989, LAB NO. 614-B.

TO TEST THE PURIFIER, A SAMPLE OF 3900 ML. OF DIESEL WAS SATURATED WITH 500 ML. OF WATER. A SAMPLE OF THE DIESEL PHASE WAS TESTED BY ASTM TEST METHOD D-1744. THE WATER CONTENT WAS 387 MG/L. THE PURIFIER WAS FILLED WITH DIESEL AND THE HEATER ELEMENT WAS CONNECTED TO A 12 VOLT BATTERY. THE TEMPERATURE WAS 54 DEG C.

THE SAMPLE OF 3900 ML. OF DIESEL AND 500 ML. OF WATER WAS FLOWED BY GRAVITY THROUGH THE PURIFIER. THE FLOW TIME WAS 90 SECONDS THE TEMPERATURE OF THE DIESEL OUT OF THE PURIFIER WAS 54 DEG C.

THE DIESEL FROM THE PURIFIER WAS TESTED BY ASTM METHOD D-1744 AND THE WATER CONTENT WAS 365 MG/L. NO VISIBLE WATER WAS FOUND. USING ASTM TEST METHOD D-96.

TEMPERATURE OF FUEL	MG/L WATER IN FUEL	FREE WATER IN FUEL
<u>BEFORE TEST--AFTER</u>	<u>BEFORE TEST--AFTER</u>	<u>BEFORE TEST--AFTER</u>
37.0/C 54.0/C	387 MG/L 365 MG/L	500 ML. NONE DETECTED

TO TEST THE SOLIDS SEPARATION: A SAMPLE OF DIESEL, WATER AND 30 GRAMS OF GRADED SAND THAT WOULD PASS THROUGH A 30 MESH SIEVE; WITH GRAVITY FLOWED INTO THE WATER-SOLIDS SEPARATOR AND THEN THROUGH THE PRIMARY FILTER. 3500 ML OF SAMPLE FLOWED THROUGH THE FILTER IN 90 SECONDS. NO SOLIDS OR SAND WAS FOUND IN THE FUEL AFTER THE PRIMARY FILTER. NO SOLIDS WERE REMOVED FROM THE FUEL BY FILTERING THROUGH A 5 MICRON FILTER. FROM THIS TEST IT HAS BEEN DETERMINED THAT THE FUEL DELIVERED FROM THE FILTER SYSTEM HAS NO FREE WATER OR DIRT PRESENT.

SINCERELY,

Walter Reid

WALTER REID
MEMBER OF AMERICAN CHEMICAL SOCIETY,
AND AMERICAN INSTITUTE OF CHEMISTS