

made a test on a Hornsby-Stockport single cylinder horizontal oil engine of 32 B.H.P., showing the remarkable economy of only 59 one-hundredths of a pint of fuel oil, consumed per brake horse power hour. Oil used was of specific gravity .825 and a heat value of 14,850 B.T.U. per pound and costs approximately 6 cents per gallon. In other words the total fuel cost of operating this little engine at say 30 H.P. for ten hours would be only \$1.32.

For a gasoline engine developing 30 H.P. for ten hours, the cost for fuel would be not less than \$7.00 or over five times as much.

His report on this test closes by saying "The low working pressure, together with simplicity and substantial design, admirable smoothness and steadiness of running observed in this engine are all-important factors for ensuring durability and little wear of working parts. The performance of the engine during the trial was entirely satisfactory."

The tests made by Prof. Robinson in England were made with Welsh anthracite pea coal which will run about 14,800 heat units per pound. The Pennsylvania anthracite pea obtainable in the Canadian market will run about 13,500 heat units per pound. It will be seen, however, that inasmuch as the English tests on this equipment, made with Welsh coal, showed an economy of 79 one-hundredths of a pound, it leaves an ample margin (21 per cent) with which to