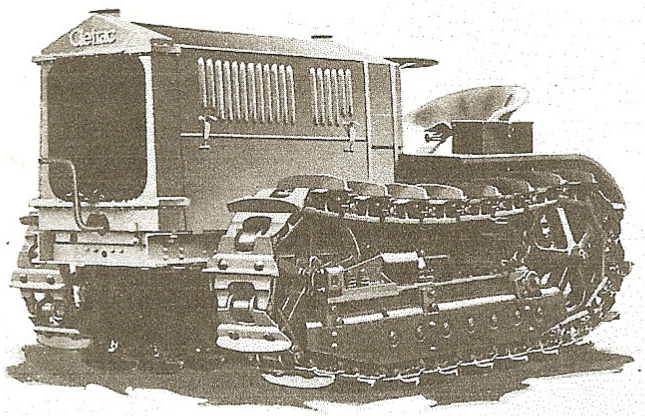
Specifications Model 20



MOTOR—Four cylinder, four cycle, water-cooled, valve-in-head, cylinders cast enbloc, 4 inch bore by 5½ inch stroke. Crankshaft is 1045 carbon steel, heat treated, supported in three large bronze-back, babbitt-lined main bearings. Pistons are of cast iron, having three compression rings. Connecting rods are of S.A.E. Steel 1035, drop forged.

MOTOR LUBRICATION—Force-feed lubrication to crankshaft and connecting rods. Splash lubrication to cam shaft, cylinder walls, pistons, rings and wrist pins.

IGNITION—Ignition by high tension Eisemann magneto with impulse starter.

GOVERNOR—Fly ball governor to throttle valve of carburetor.

CARBURETOR AND FUEL SYSTEM—Tillotson carburetor size 1¼ inch. The intake manifold is hot-spotted above the carburetor to assure perfect vaporization of the fuel. Manifold designed for both kerosene and gasoline. All fuel lines are of copper tubing. The fuel tank and mounting are assembled to the tractor frame and held in place by two steel straps. It has a capacity of 11 gallons in the main tank and ¾ of a gallon in the auxiliary tank.

CLARIFIER—All air entering the carburetor is cleaned by Pomona clarifier securely mounted to the engine with a steel tube connection to carburetor.

COOLING SYSTEM—Tubular radiator with sufficient fins for cooling. Capacity 4½ gallons.

CLUTCH—Borg and Beck, pull type design, single plate, 10 inch diameter.

TRANSMISSION AND SPEEDS—Selective type, two speeds forward and one reverse. Low speed is 2.25 miles per hour. High speed is 4.5 miles per hour. Reverse speed is 1.75 miles per hour. All shafts and gears are made of alloy steel and heat-treated; heavy-duty ball bearings are used throughout.

STEERING—Steering is accomplished by the effect of the motor through planetary compensating gears.

DRIVE SPROCKETS—The drive sprockets are of cast steel, heat-treated, and are supported on extra large shafts mounted in heavy-duty ball bearings.

TRACKS AND TRACTIVE SURFACE—The track shoes are 9½ inches wide, $8\frac{3}{16}$ inch pitch. Grousers are 1¼ inches high, 12 inches wide. There are twenty-two heat-treated carbon

steel shoes in each track, having 1⅛ inch diameter carbonized and hardened steel track shoe pins. The bushings and rollers are carbonized and hardened. Length on ground each side is 61 inches. The total tractive surface is 1,160 square inches. Ground pressure is 4.14 pounds per square inch.

GENERAL DIMENSIONS—Length over all, 99 inches. Width over all, 48½ inches. Height over all, 52 inches. Ground clearance, 8 inches. Center to center of tracks, 39 inches.

TURNING RADIUS—Turning radius is 9 feet.

RATINGS—At the drawbar, 20 horsepower. At the power pulley, 27 horsepower.

POWER PULLEY AND TAKE-OFF—EXTRA EQUIPMENT—Attachment furnished with or without belt pulley. Pulley is of 12 inch diameter, 6 inch face. Operated at 860 R.P.M. at a belt speed of 2,700 feet per minute, and motor speed of 1,375 R.P.M. The power take-off speed is 680 R.P.M. at a motor speed of 1,375 R.P.M.