

# HUMBER

## "TWELVE" LUBRICATION CHART

**NOTE.**—Figures in the symbols indicate periods at which attention is required in 100's of miles, i.e., 2 denotes 200 miles, 10 = 1,000, etc.

**Swivel Axle Pin (2) and Steering Cross Tube.**—Every 1,000 miles apply Wakefield Castrol D Gear Oil with the oil gun at nipples indicated.

**Front Hub.**—Every 2,000 miles remove wheel hub cover and apply Wakefield CASTROLEASE Heavy with the oil gun at the nipple exposed.

**Dynamo.**—Every 6,000 miles move aside the small flap at the end of the Dynamo and insert a little Wakefield CASTROL Water Pump Grease.

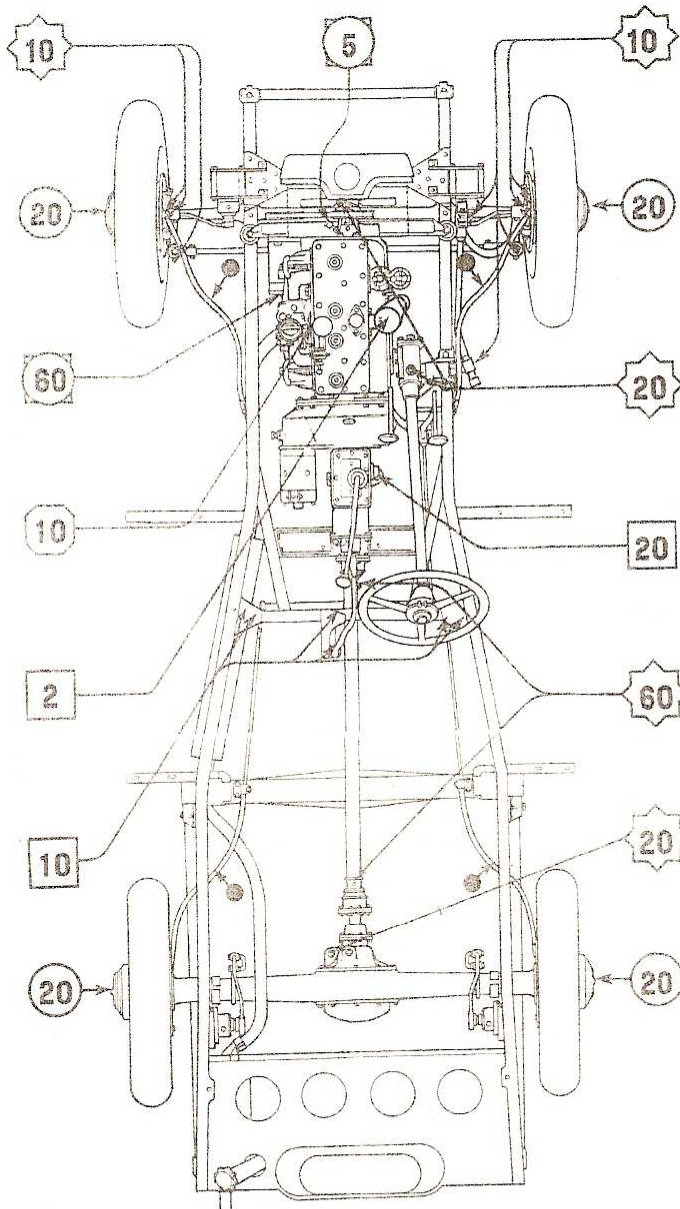
**Distributor.**—Every 1,000 miles give the oiler on the distributor shaft a few drops of Wakefield OILIT. Give the rotating cam the lightest smear of vaseline.

**Engine.**—Every 200 miles or daily check the oil level and fill up to mark on dipstick, if necessary, with Wakefield CASTROL XL (in Summer) or CASTROL AA (in Winter). Every 2,000 miles drain the engine sump and refill with fresh engine oil. Every 6,000 miles drain the engine sump and remove it. Wash filter thoroughly with petrol or paraffin and wash out sediment which may have collected in the bottom of the sump. Refill with the correct grade according to season (capacity 10 pts.).

**Brake Connections.**—Every 1,000 miles apply a few drops of Engine Oil with the oil can at the points indicated.

**Rear Hub.**—Every 2,000 miles remove wheel hub cover and apply Wakefield CASTROLEASE Heavy with the oil gun at the nipple exposed.

**Water Pump.**—Every 500 miles give the grease cup on the water pump gland one turn. Refill when necessary with Wakefield CASTROL Water Pump Grease.



**Swivel Axle Pin (2) Steering Cross Tube and Steering Side Tube (2).**—Every 1,000 miles apply Wakefield CASTROL D Gear Oil with the oil gun at the nipples indicated.

**Front Hub.**—Every 2,000 miles remove the wheel hub cover and apply Wakefield CASTROLEASE Heavy with the oil gun at the nipple exposed.

**Steering Box and Fan.**—Every 2,000 miles examine the oil level in the steering box and replenish if necessary with Wakefield CASTROL D Gear Oil. Apply the oil gun filled with Wakefield CASTROL D Gear oil to the nipple on the fan bearing.

**Gearbox.**—Every 2,000 miles inspect the oil level in the gearbox and replenish if necessary, to the level of the plug hole with Wakefield CASTROL XL. After the first 500 miles and then every 6,000 miles drain gearbox and refill with fresh Wakefield CASTROL XL (Capacity 2½ pts.).

**Universal Joints.**—Every 6,000 miles apply Wakefield CASTROL D Gear Oil with the oil gun to the nipples on the joint housings.

**Rear Axle.**—Every 2,000 miles examine the oil level in the rear axle and if necessary replenish with Wakefield CASTROL D Gear Oil to the level of the filler plug which is situated on the lower left side of the differential housing. After the first 500 miles and then every 6,000 miles drain and refill the rear axle with fresh Wakefield CASTROL D Gear Oil (Capacity 3 pints).

**Rear Hub.**—Every 2,000 miles remove wheel hub cover and apply Wakefield CASTROLEASE Heavy with the oil gun at the nipple exposed.

### ALSO REQUIRING ATTENTION

Every 6,000 miles grease the brake cables with Wakefield CASTROLEASE G as directed in the instruction book.

**Road Springs.**—Every 12,000 miles spray road springs with CASTROL Penetrating Oil. This oil has creeping properties which ensure its reaching the most minute crevices between the spring leaves.

Every 1000 miles apply Wakefield OILIT to bonnet hinges, locks, throttle and control lock joints.

**Upper Cylinder Lubrication.**—In order to lubricate more effectively the piston, piston rings, valve stems and guides, especially while the engine is being "run in" or when starting from cold, Wakefield CASTROLLO should be used.

Use the cap of the CASTROLLO tin as a measure and add one cap full to every 4 gallons of fuel you put in your tank. CASTROLLO can also be obtained loose in small quantities at most filling stations; i.e., sufficient to treat the amount of fuel purchased.

### EXPLANATION OF SYMBOLS:

<p><b>Wakefield CASTROL XL and CASTROL AA.</b> —High grade engine oils recommended by the manufacturers for the Humber 12 h.p. engine and gearbox as described.</p>	<p><b>Wakefield CASTROL D Gear Oil.</b>—A full-bodied dark coloured oil recommended for chassis, rear axle and universal joint lubrication.</p>	<p><b>Wakefield CASTROL-EASE Heavy.</b>—A high quality grease recommended for the lubrication of the Humber 12 h.p. wheel hubs.</p>	<p><b>Wakefield CASTROL Water Pump Grease.</b> —A high melting point grease especially suitable for the water pump and dynamo.</p>	<p><b>Wakefield OILIT.</b>—A pure refined light lubricant for automobile electrical equipment.</p>
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Address of the Manufacturers of the HUMBER "Twelve"

## HUMBER LTD., COVENTRY

LONDON SERVICE DEPOT: Somerton Road, Cricklewood, N.W.2

Issued by C. C. WAKEFIELD & CO., LTD., Wakefield House, Cheapside, London, E.C.2