

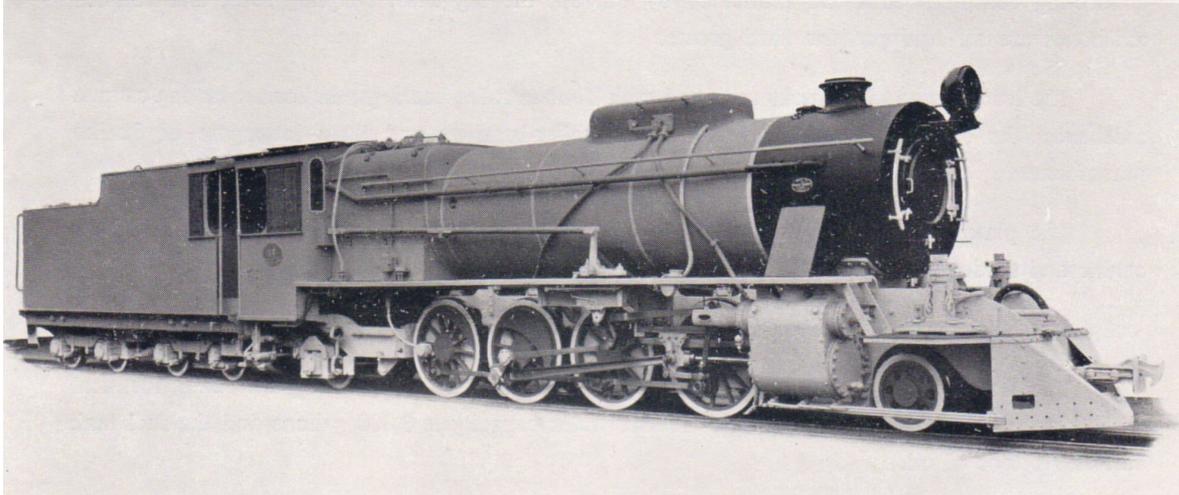
IRAQI STATE RAILWAYS



Metre Gauge

1953

2-8-2(Y)



Cylinders.....	(2) 17 in. Diam. X 24 in. Stroke	Maximum Axleload.....	10 tons
Diameter Coupled Wheels.....	4 ft. 0 in.	Weight :	
Working Pressure.....	180 lb.	Engine in Working Order.....	56.35 "
Tractive Effort at 85% Pressure.....	22,110 lb.	Tender " "	40.3 "
		Total " "	96.65 "

The YD 2-8-2 has been a standard metre gauge freight locomotive on the Indian Railways for some time and Vulcan supplied a considerable number of these, and also built 20 for Burma in 1949.

The latest example of this engine however is illustrated above and is one of an order for 10, known as the Y Class, built for the Iraqi State Railways in 1953 for main line goods duties between Baghdad and Basra and Baghdad and Kirkuk, where the maximum axleload is restricted to 10 tons.

These "locomotives are arranged for oil firing to the Iraqi State Railways standard requirements, the burners being of a modified Booth pattern.

The boiler has a Belpaire firebox with a steel inner shell of riveted construction and is equipped with a Melesco superheater of 21 elements.



Lubrication of the valves and pistons is by Wakefield AC.2 sight-feed lubricator. The connecting rod little ends are lubricated by oil, but the big ends, coupling rods, and coupled axleboxes are all equipped for hard grease.

The leading and hind trucks are fitted with Timken roller-bearings, the former having cannon axleboxes; the eccentric cranks also revolve on roller-bearings and these latter are of Skefko manufacture.

The plate frames are 1 in. thick and the spring gear is compensated in two groups, both engine and tender being fitted with A,B.C. centre couplers.

The large capacity sandbox is located on the boiler top.

The double-bogie tenders are also equipped with Timken roller-bearing axleboxes, identical with those on the engine trailing truck. Tender water capacity is 3,000 gallons and the fuel tank carries 7.1 tons of oil.

The engines and tenders were shipped to Basra, mainly from Manchester Docks.