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1 Background

The London and North Eastern Railway (LNER) Class O4 first consisted of 131 ex-Great Central Railway (GCR) Class 8K 2-8-0 steam locomotives acquired on grouping in 1923. Designed by John G. Robinson the engines were built at the GCR locomotive works at Gorton, Manchester. Robinson developed the Class O4, from the GCR 0-8-0 Q4 by adding a front pony truck to support the extra weight of the larger cylinders and valve gear. A superheated boiler was used on the Class O4 and run at a working pressure of 180psi.

The O4s were added to when the LNER purchased 273 ex-Railway Operating Division ROD 2-8-0s to the same design between 1923 and 1927. Meanwhile, the 19 GCR Class 8M (LNER Class O5) were rebuilt as O4 standard during the 1920s and 1930s. 92 O4 locomotives were requisitioned by the War Department during World War II and shipped during late 1941 for operation in the Middle East.

The O4 class were used to haul heavy freight trains throughout the LNER system. 329 engines remained in operation at 1 January 1948. Withdrawal of O4 engines by BR commenced in 1959 and the last was taken out of service in the Doncaster area in April 1966.

Robinson O4 Specifications:

Cylinders

Driving wheel diameter

Bogie wheel diameter

Weight

21 x 26 inches
4 feet 8 inches
3 feet 6 inches
121 tons

Tractive Effort 31,326 pounds

Boiler maximum dia. 5 feet 0 inches
Boiler pressure 180 lbs/square inch

Boiler length 16 feet 0 inches
Heating Surface - Flues 18 x 5.25in
Heating Surface - Firebox 154 sq.ft.
Heating Surface - Tubes 134 x 2in
Heating Surface - Superheater 18 x 1.06in

2 Rolling Stock

2.1 Robinson O4 BR Black



3 Scenarios

3.1 The Robinson O4

An introductory scenario to the O4. Pick up some wagons at Hadfield and drop them off at Dinting.

Date 15th April 1950

Rating Easy
 Start Time 08:00
 Start Location Hadfield
 End Location Dinting

3.2 Openshaw Shunting

Pick up and deliver some empty wagons to Dewsnap.

• Date 8th August 1950

Rating Hard
 Start Time 16:00
 Start Location Openshaw
 End Location Dewsnap

3.3 Night Freight

Haul some mixed freight over the Woodhead line, from Dinting to Wath, during the evening.

• **Date** 12th October 1950

Rating Medium
 Start Time 20:00
 Start Location Dinting
 End Location Wath

3.4 Beneath Black Skies

Transport some coal to Dewsnap. You have been informed that a V2 passenger train ahead of you is struggling due to the weather. Keep an eye out for red signals.

• **Date** 20th February 1951

Rating Medium
 Start Time 18:00
 Start Location Wath
 End Location Penistone

3.5 Waking Up

Drive a class O4 hauling some coal over the Woodhead line in the early morning.

Date 12th July 1951
Rating Medium
Start Time 06:15
Start Location Wicker
End Location Woodhead

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