

## REPORT ON OIL ENGINE MACHINERY.

MDB. 18249

No 34538

28 SEP 1946

27 SEP 1946

Received at London Office

Port of

Sunderland.

Date of writing Report

When handed in at Local Office

No. in Survey held at  
Reg. Book.Date, First Survey 31<sup>st</sup> Oct 1945 Last Survey 2<sup>nd</sup> Oct 1946  
Number of Visits 63Single  
on the ~~Twin~~  
~~Triple~~  
~~Quadruple~~  
Screw vessel

BRITISH EMPRESS

Tons Gross 8745  
Net 4988Built at Hawerton HillBy whom built Furness P.B. Co. Ld.

Yard No. 391 When built 1946

Engines made at SunderlandBy whom made Wm. Leasford & Son Ld.

Engine No. 254 When made 1946.

Donkey Boilers made at WidnesBy whom made H.E. Allen & Co. (1938) Ltd.

Boiler No. 2365 When made 1946.

Brake Horse Power 3100

Owners British Tanker Co.Port belonging to London

Nom. Horse Power as per Rule 684

Is Refrigerating Machinery fitted for cargo purposes NoIs Electric Light fitted Yes

Trade for which vessel is intended

Tanker.

L. ENGINES, &amp;c. Type of Engines

Maximum pressure in cylinders 640 lbs/sq. in.

Mean Indicated Pressure 85 lbs/sq. in.

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge

Revolutions per minute 1125

Crank Shaft, dia. of journals as fitted 431 in.

Flywheel Shaft, diameter as fitted 450 in.

Tube Shaft, diameter as fitted

Screw Shaft, diameter as fitted

Bronze Liners, thickness in way of bushes as fitted

Propeller boss

If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner

If the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

If two liners are fitted, is the shaft lapped or protected between the liners

If so, state type

Propeller, dia. Pitch No. of blades Material whether Moveable Total Developed Surface sq. feet

Method of reversing Engines

Is a governor or other arrangement fitted to prevent racing of the engine when disconnected

Means of lubrication

Are the cylinders fitted with safety valves

Are the exhaust pipes and silencers water-cooled or lagged with

Non-conducting material

If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine

Cooling Water Pumps, No.

Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Bilge Pumps worked from the Main Engines, No.

Diameter Stroke Can one be overhauled while the other is at work

Pumps connected to the Main Bilge Line

No. and Size How driven

Is the cooling water led to the bilges

If so, state what special arrangements are made to deal with this water in addition to the ordinary bilge pumping arrangements

Ballast Pumps, No. and size

Power Driven Lubricating Oil Pumps, including Spare Pump, No. and size

Are two independent means arranged for circulating water through the Oil Cooler

Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge

Pumps, No. and size:—In Machinery Spaces

In Holds, &amp;c.

Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size

Are all the Bilge Suction pipes in Holds and Tunnel Well fitted with strainer-boxes

Are the Bilge Suctions in the Machinery Spaces

ed from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges

Are all Sea Connections fitted direct on the skin of the ship

Are they fitted with Valves or Cocks

Are they fixed sufficiently high on the ship's side to be seen without lifting the platform plates

Are the Overboard Discharges above or below the deep water line

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel

Are the Blow Off Cocks fitted with a spigot and brass covering plate

What pipes pass through the bunkers

How are they protected

What pipes pass through the deep tanks

Have they been tested as per Rule

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times

Is the arrangement of valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery spaces, or from one compartment to another

Is the Shaft Tunnel watertight

Is it fitted with a watertight door

worked from

If a wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork

Main Air Compressors, No.

No. of stages Diameters Stroke Driven by

Auxiliary Air Compressors, No.

No. of stages Diameters Stroke Driven by

Small Auxiliary Air Compressors, No.

No. of stages Diameters Stroke Driven by

What provision is made for first Charging the Air Receivers

Scavenging Air Pumps, No.

Diameter Stroke Driven by

Auxiliary Engines crank shafts, diameter

as per Rule as fitted

Position

Have the Auxiliary Engines been constructed under special survey

Is a report sent herewith

Single or double acting Single

No. of cylinders 4 No. of cranks 4 (3 throws)

Between each 3 throws.

Is there a bearing between each crank

Kind of fuel used

Thrust Shaft, diameter at collars as fitted 450 in.

Is the tube screw shaft fitted with a continuous liner

Is the after end of the liner made watertight in the

Length of Bearing in Stern Bush next to and supporting propeller

Total Developed Surface sq. feet

Means of lubrication

Are the exhaust pipes and silencers water-cooled or lagged with

Non-conducting material

If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine

Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Can one be overhauled while the other is at work

No. and Size How driven

Is the cooling water led to the bilges

If so, state what special arrangements are made to deal with this water in addition to the ordinary bilge pumping arrangements

Power Driven Lubricating Oil Pumps, including Spare Pump, No. and size

Are two independent means arranged for circulating water through the Oil Cooler

Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge

Pumps, No. and size:—In Machinery Spaces

In Holds, &amp;c.

Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size

Are all the Bilge Suction pipes in Holds and Tunnel Well fitted with strainer-boxes

Are the Bilge Suctions in the Machinery Spaces

ed from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges

Are all Sea Connections fitted direct on the skin of the ship

Are they fitted with Valves or Cocks

Are they fixed sufficiently high on the ship's side to be seen without lifting the platform plates

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Are the Blow Off Cocks fitted with a spigot and brass covering plate

What pipes pass through the bunkers

How are they protected

What pipes pass through the deep tanks

Have they been tested as per Rule

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times

Is the arrangement of valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery spaces, or from one compartment to another

Is the Shaft Tunnel watertight

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worked from

If a wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork

Main Air Compressors, No.

No. of stages Diameters Stroke Driven by

Auxiliary Air Compressors, No.

No. of stages Diameters Stroke Driven by

Small Auxiliary Air Compressors, No.

No. of stages Diameters Stroke Driven by

What provision is made for first Charging the Air Receivers

Scavenging Air Pumps, No.

Diameter Stroke Driven by

Auxiliary Engines crank shafts, diameter

as per Rule as fitted

Position

Have the Auxiliary Engines been constructed under special survey

Is a report sent herewith

Lloyd's Register Foundation

002559-002567-0025



AIR RECEIVERS: — Have they been made under survey

State No. of Report or Certificate

Is each receiver, which can be isolated, fitted with a safety valve as per Rule

Can the internal surfaces of the receivers be examined and cleaned

Is a drain fitted at the lowest part of each receiver

Injection Air Receivers, No.

Cubic capacity of each

Internal diameter

thickness

Seamless, lap welded or riveted longitudinal joint

Material

Range of tensile strength

Working pressure by Rules Actual

Starting Air Receivers, No.

Total cubic capacity

Internal diameter

thickness

Seamless, lap welded or riveted longitudinal joint

Material

Range of tensile strength

Working pressure by Rules Actual

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

Is the donkey boiler intended to be used for domestic purposes only

PLANS

Are approved plans forwarded herewith for Shipping

(If not, state date of approval)

Receivers

Separate Fuel Tanks

Donkey Boilers

General Pumping Arrangements

Pumping Arrangements in Machinery Space

Oil Fuel Burning Arrangements

SPARE GEAR.

Has the spare gear required by the Rules been supplied

State the principal additional spare gear supplied

1 Cylinder liner Complete with piston, 1 upper & lower piston skirt, 4 rings, 1 piston head, 40 main piston rings, 4 fuel valves complete, 8 spray flaps, 1 Central Conn. rod belt end spherical bearing, 2 Side Conn. rod belt end spherical bearings, 1 main bearing (spherical), 2 main bearing studs & nuts, 4 Central & side (each) top & belt end bearing bolts & nuts, 2 top Side rod bolts & nuts, 2 N.R. air starting valves, 2 cyl. relief valves, 1 fuel pump Suct. Chamber Complete, 2 fuel pump bodies Complete with valves, 1 Gear pump Suct. & Del. Valve, 8 rubber hoses for upper piston casting, 1 roller chain for Camshaft drive.

The foregoing is a correct description

WILLIAM DOLLARD & SONS, Limited.

Manufacturer.

Dates of Survey while building  
During progress of work in shops -- 1945. Oct 31. Nov. 6, 8, 12, 14, 16, 19, 21, 22, 27, 28, 30, Dec. 2, 4, 6, 7, 11, 14, 17, 18, 21, 1946. Jan. 4, 9, 16, 18, 24, 25, Feb. 1, 4, 5, 7, 8, 11, 12, 15, 20, 24, 25, 26, 27, 28, Mar. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Apr. 2, 3, 4, 11, 14, 15, 20, 21, 22, 25, 27, 28, May 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Jun. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Jul. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Aug. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Sep. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Oct. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Nov. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Dec. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, 1947. Jan. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Feb. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Mar. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Apr. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, May 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Jun. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Jul. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Aug. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Sep. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Oct. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Nov. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Dec. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, 1948. Jan. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Feb. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Mar. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Apr. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, May 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Jun. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Jul. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Aug. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Sep. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Oct. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Nov. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Dec. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, 1949. Jan. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Feb. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Mar. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Apr. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, May 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Jun. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Jul. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Aug. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Sep. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Oct. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Nov. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Dec. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, 1950. Jan. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Feb. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Mar. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Apr. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, May 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Jun. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Jul. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Aug. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Sep. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Oct. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Nov. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Dec. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, 1951. Jan. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Feb. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Mar. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Apr. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, May 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Jun. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Jul. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Aug. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Sep. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Oct. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Nov. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Dec. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, 1952. Jan. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Feb. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Mar. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Apr. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, May 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Jun. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Jul. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Aug. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Sep. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Oct. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Nov. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Dec. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, 1953. Jan. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Feb. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Mar. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Apr. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, May 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Jun. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Jul. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Aug. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Sep. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Oct. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Nov. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Dec. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, 1954. Jan. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Feb. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Mar. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Apr. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, May 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Jun. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Jul. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Aug. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Sep. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Oct. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Nov. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Dec. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, 1955. Jan. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Feb. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Mar. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Apr. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, May 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Jun. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Jul. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Aug. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Sep. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Oct. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Nov. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Dec. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, 1956. Jan. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Feb. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Mar. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Apr. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, May 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Jun. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Jul. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Aug. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Sep. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Oct. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Nov. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Dec. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, 1957. 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Jan. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Feb. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Mar. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Apr. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, May 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Jun. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Jul. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Aug. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Sep. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Oct. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Nov. 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 19, 20, 21, 22, 25, 27, 28, Dec