



ALCO
2150/2000 HP
CENTURY 420 (2180/2030 CV)
DIESEL-ELECTRIC
LOCOMOTIVE

GENERAL SPECIFICATION DL-721A

**STANDARD U.S. TYPE, ALL PURPOSE FOUR AXLE DIESEL-ELECTRIC
LOCOMOTIVE WITH 2030 CV NET INPUT TO THE GENERATOR**



ALCO

2150/2000 HP

CENTURY 420 (2180/2030 CV)

DIESEL-ELECTRIC LOCOMOTIVE

- Suitable for main-line, passenger and freight or heavy transfer duties, especially where the larger continuous tractive effort of a six axle locomotive is not required.
- Available for gauges from 1435 mm (4' 8½") upwards, built for axle loads from 27,2 metric tons (60,000 lbs.)
- Dynamic brake can be applied.
- Steam generator for train heating can be applied.

Century 420 General Characteristics

Diesel Engine: ALCO 12-251-C 2180/2030 CV
(2150/2000 HP)

Wheel Arrangement: Bo-Bo

Principal Dimensions:

Height (maximum)—4562 mm (14' 11½")

Width (maximum)—3089 mm (10' 1¾")

Length (over body)—16891 mm (55' 5")

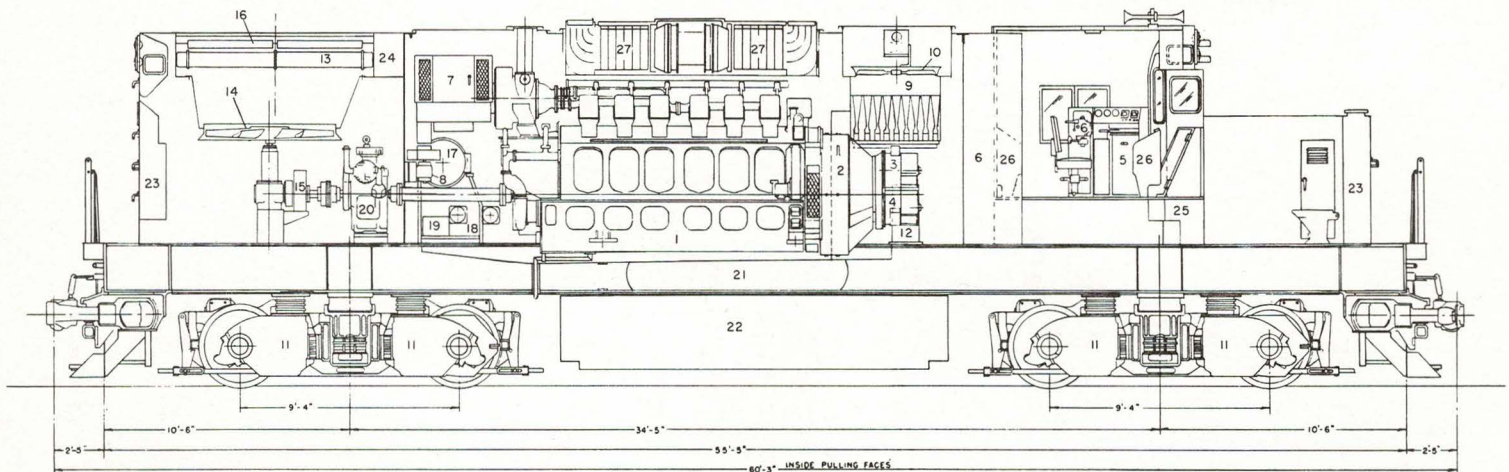
Basic Locomotive Weight: 108 860 Kg. (240,000 lbs.)

Axle Load: 27 210 Kg. (60,000 lbs.)

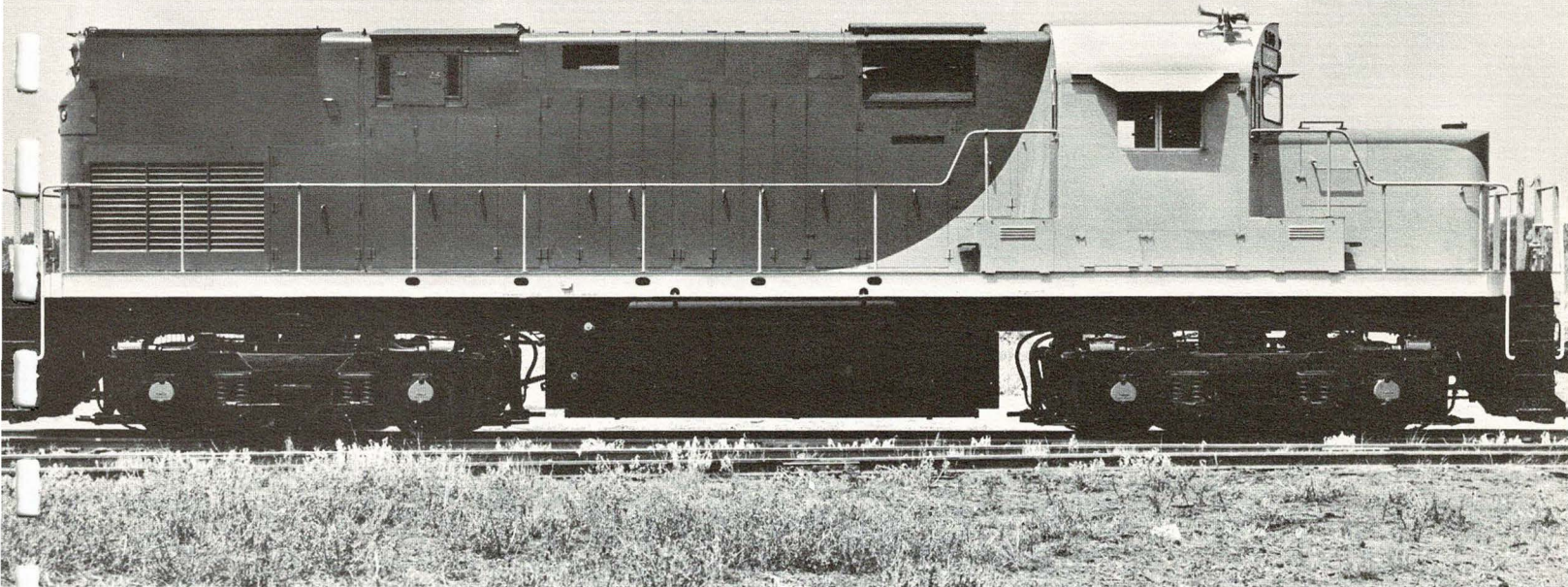
Wheel Diameter Basic: 1016 mm (40")

Fuel Oil Capacity Basic: 7 600 l. (2,000 U.S. Gallons),
(1,666 Imp. Gallons)

Standard Gauge Traction Motors from 1435 mm
(4' 8½") upwards

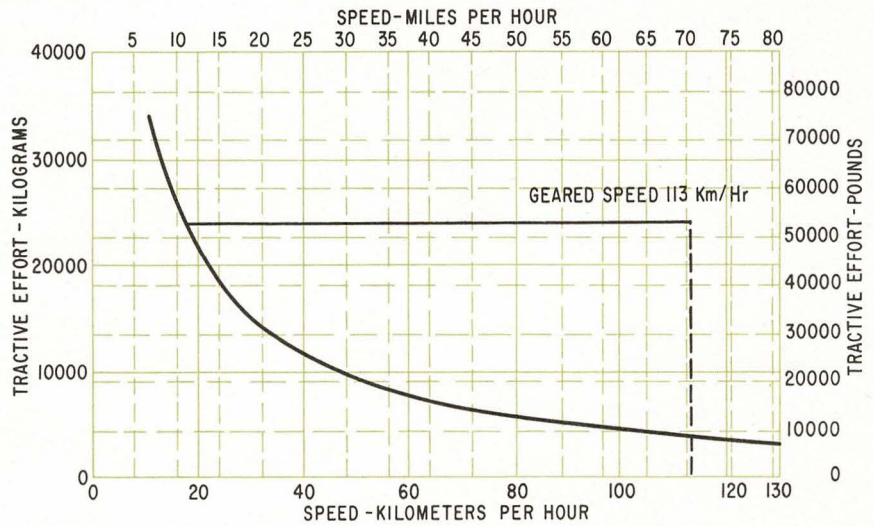


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|---|-------------------------------|------------------------------|---------------------------------|
| 1. Engine | 8. Air Cleaner Exhauster | 15. Radiator Fan Clutch | 22. Fuel Tank |
| 2. Main Generator | 9. Mechanical Air Cleaner | 16. Radiator Shutter | 23. Sand Box |
| 3. Exciter | (Gen. and Traction Motor Air) | 17. Lubricating Oil Filter | 24. Engine Water Expansion Tank |
| 4. Auxiliary Generator | 10. Hood Pressurizing Fan | 18. Lubricating Oil Strainer | 25. Batteries |
| 5. Control Stand | 11. Traction Motor | 19. Lubricating Oil Cooler | 26. Cab Heater |
| 6. Control Compartment | 12. Traction Motor Blower | 20. Air Compressor | 27. Dynamic Brake Resistors |
| 7. Mechanical Air Cleaner
(Engine Air) | 13. Radiator | 21. Main Air Reservoir | |
| | 14. Radiator Fan | | |



TRACTIVE EFFORT

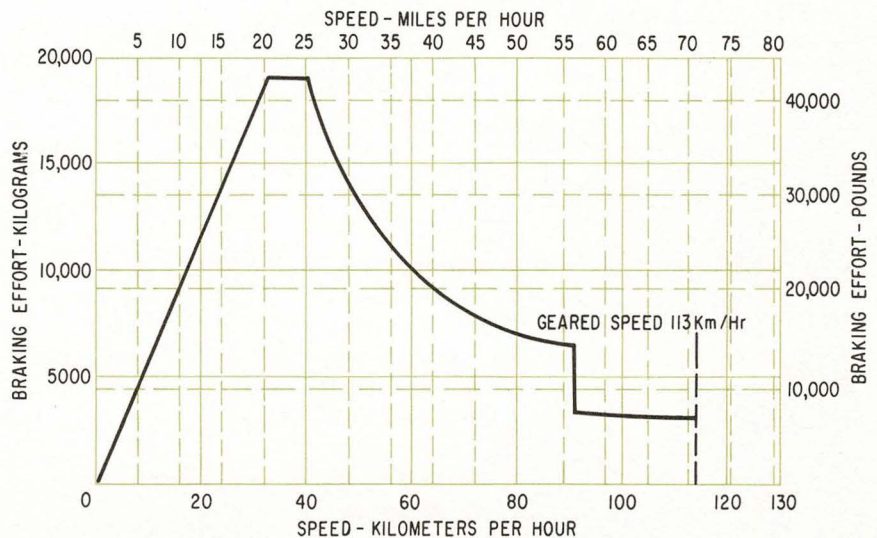
GEAR RATIO	TOP GEARED SPEED		MAXIMUM CONTINUOUS TRACTIVE EFFORT			
	Km/h.	MPH	Kg.	Lbs.	Km/h.	MPH
WITH 1016 mm (40") wheels						
74:18	113	70	24 040	53,000	18,0	11.2
65:18	129	80	21 090	46,500	20,8	12.9



Tractive Effort Characteristics with 1016 mm (40") Wheels and Basic 74:18 Gearing.

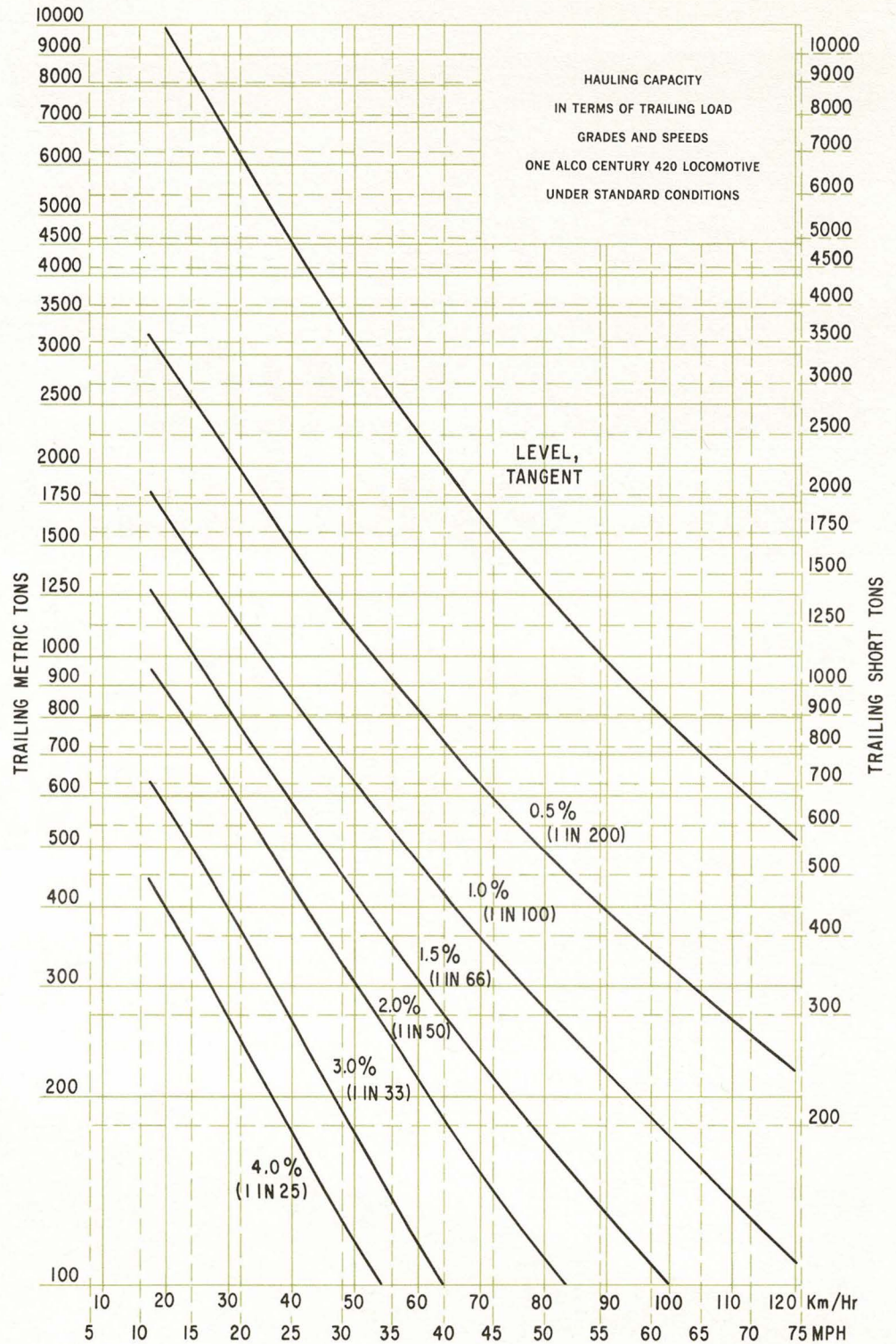
BRAKING EFFORT

GEAR RATIO	BRAKE PEAK SPEED		PEAK BRAKING EFFORT	
	Km/h.	MPH	Kg.	Lbs.
WITH 1016 mm (40") wheels				
74:18	31,4 to 40,2	19,5 to 25	19 050	42,000
65:18	35,4 to 45,1	22 to 28	16 780	37,000



Braking Effort Characteristics with 1016 mm (40") Wheels and Basic 74:18 Gearing.

TONNAGE RATING



NOTE:

The hauling capacity shown above is for 4 axle - 45 metric ton freight wagons, in good condition, and has been calculated by Davis' formula, for standard conditions: Sea level, 736 mm Hg. (29"), 16°C. intake temperature (60°F) and fuel of 10 850 Cal/Kg.* (19,500 BTU/lb.*) meeting ASTM 2-D specification.

*Higher calorific value

FOREIGN ASSOCIATES AND LICENSEES

Australia: A. E. Goodwin, Ltd., Sydney N.S.W., Australia
Canada: Montreal Locomotive Works, Montreal, Quebec
England: A.E.I. (Associated Electrical Industries), Manchester, England
France: Forges et Chantiers de la Méditerranée, Paris, France
India: Diesel Locomotive Works, Varanasi, U.P., India
Spain: Cia. Euskalduna, Madrid, Spain



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