

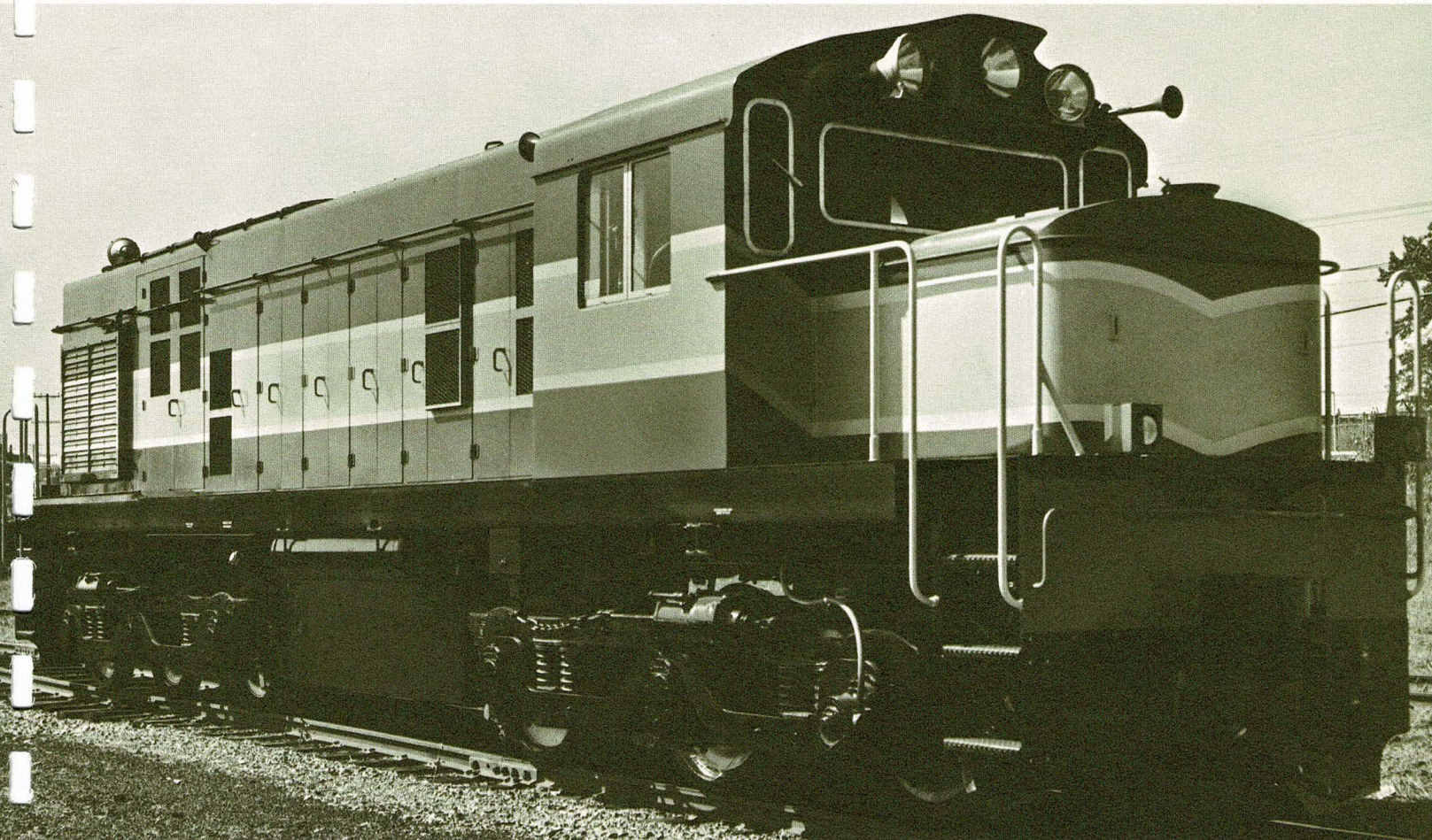
ALCO

ALCO
1370/1215 CV
SERIES C-14 (1350/1200 HP)
DIESEL-ELECTRIC
LOCOMOTIVE

GENERAL SPECIFICATIONS DL-535-B AND DL-535-S

**STANDARD EXPORT, ALL PURPOSE MODERATE AXLE LOAD SIX AXLE
DIESEL-ELECTRIC LOCOMOTIVE WITH 1215 CV NET INPUT TO THE GENERATOR**

ALCO DL-535-B

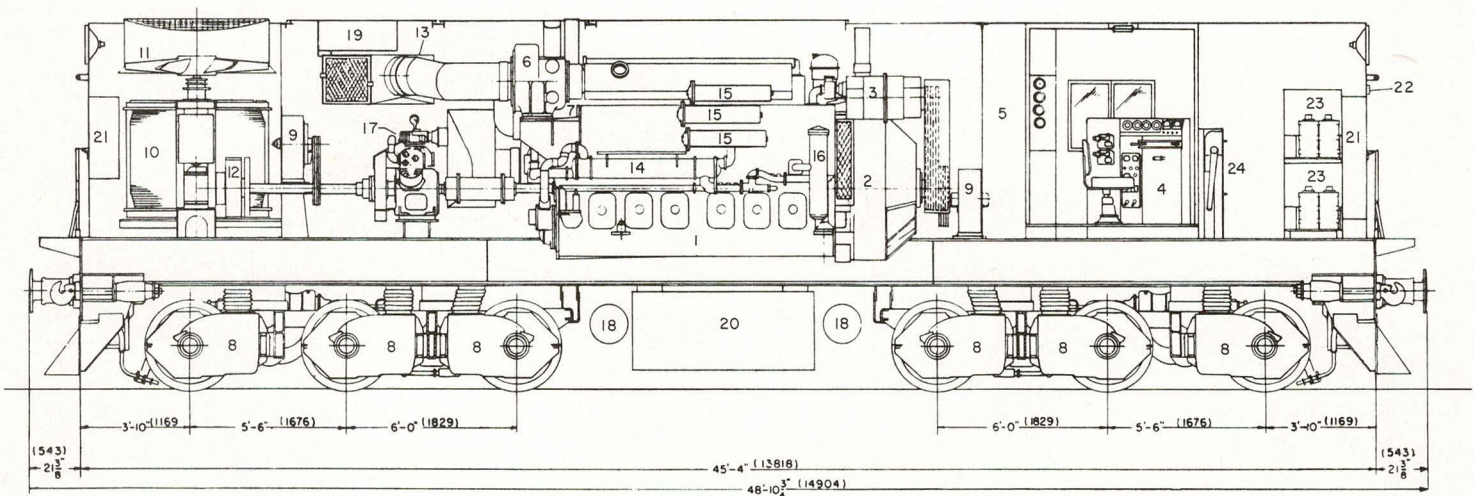


ALCO 1370/1215 CV SERIES C-14 (1350/1200 HP) DIESEL-ELECTRIC LOCOMOTIVE

- Versatile units for main or branch line duty, where clearance and axle load limitations are moderate.
- For all gauges from 914 mm (36") upwards, built for axle loads from 12,3 metric tons.
- Dynamic brake or steam generator can be applied (DL-535-B).
- Dynamic brake and steam generator can be applied (DL-535-S).

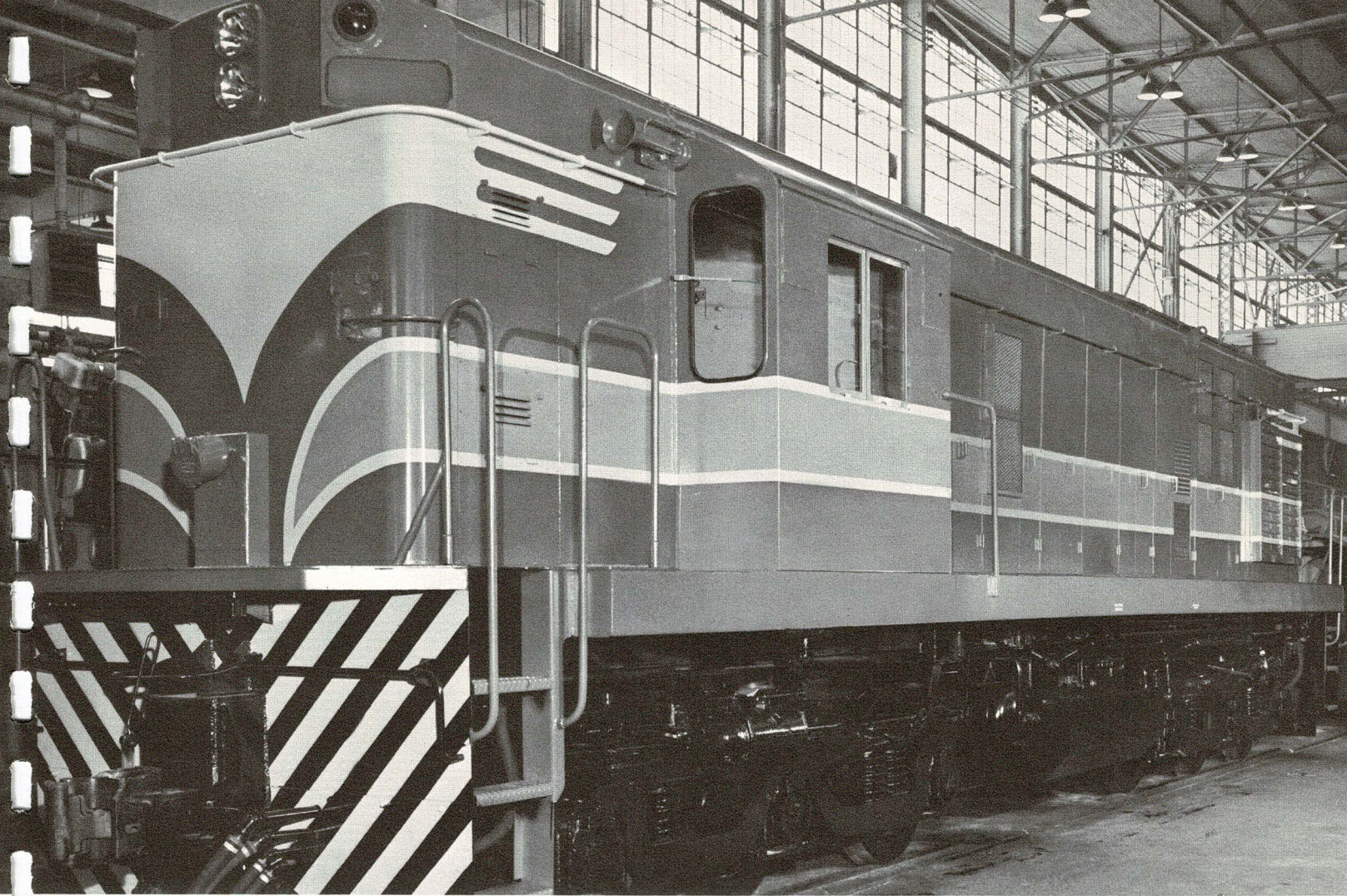
DL-535 General Characteristics

	"B" UNIT	"S" UNIT
Diesel Engine:	ALCO 6-251-D 1370/1215 CV (1350/1200 HP)	ALCO 6-251-D 1370/1215 CV (1350/1200 HP)
Wheel Arrangement:	Co-Co	Co-Co
Principal Dimensions:		
Height (maximum) —	3870 mm (12' 8 $\frac{3}{8}$ ")	3915 mm (12' 10 $\frac{1}{8}$ ")
Width (maximum) —	2915 mm (9' 6 $\frac{3}{4}$ ")	2943 mm (9' 7 $\frac{7}{8}$ ")
Length (over body) —	13818 mm (45' 4")	15037 mm (49' 4")
Basic Locomotive Weight:	73 935 Kg. (163,000 lbs.)	83 915 Kg. (185,000 lbs.)
Axle Load:	12 320 Kg. (27,170 lbs.)	13 985 Kg. (30,830 lbs.)
Wheel Diameter Basic:	914 mm (36")	1016 mm (40")
Fuel Oil Capacity Basic:	2 270 l. (600 U. S. Gallons); (500 Imp. Gallons)	2 650 l. (700 U. S. Gallons); (583 Imp. Gallons)
Train Heating Water Basic:	1 135 l. (300 U. S. Gallons); (250 Imp. Gallons)	2 650 l. (700 U. S. Gallons); (583 Imp. Gallons)

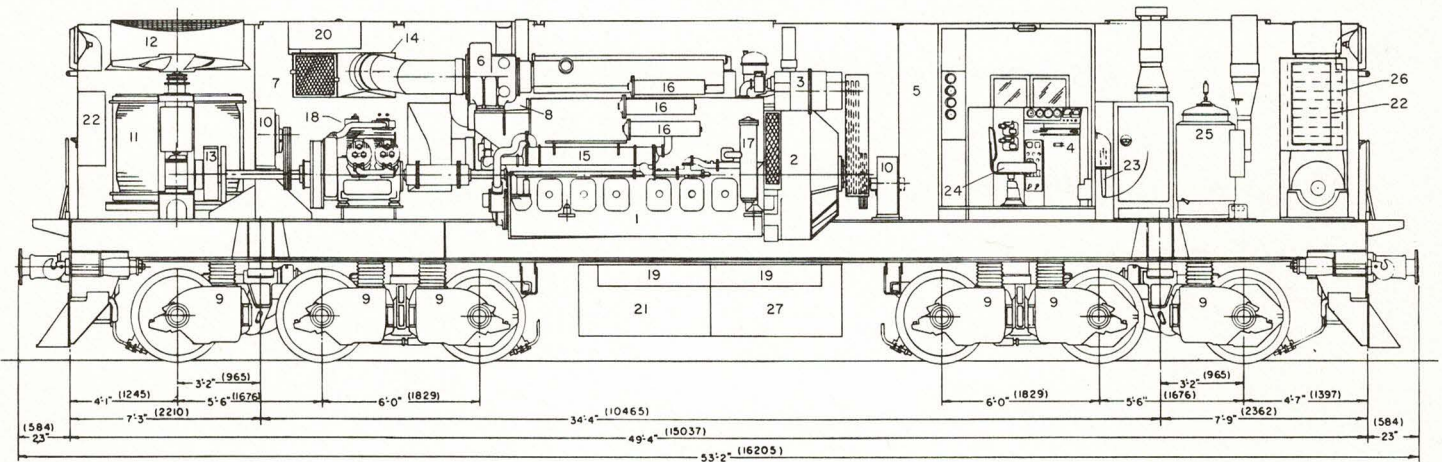


DL-535-B

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|--------------------------------|--------------------------|------------------------------|-----------------------|
| 1. Engine | 7. Aftercooler | 13. Air Filters | 19. Engine Water Tank |
| 2. Main Generator | 8. Traction Motor | 14. Lubricating Oil Cooler | 20. Fuel Tank |
| 3. Exciter-Auxiliary Generator | 9. Traction Motor Blower | 15. Lubricating Oil Filter | 21. Sand Box |
| 4. Control Stand | 10. Radiator | 16. Lubricating Oil Strainer | 22. Sand Box Cover |
| 5. Control Compartment | 11. Radiator Fan | 17. Air Compressor | 23. Batteries |
| 6. Turbosupercharger | 12. Radiator Fan Clutch | 18. Main Reservoir | 24. Hand Brake |



ALCO DL-535-S

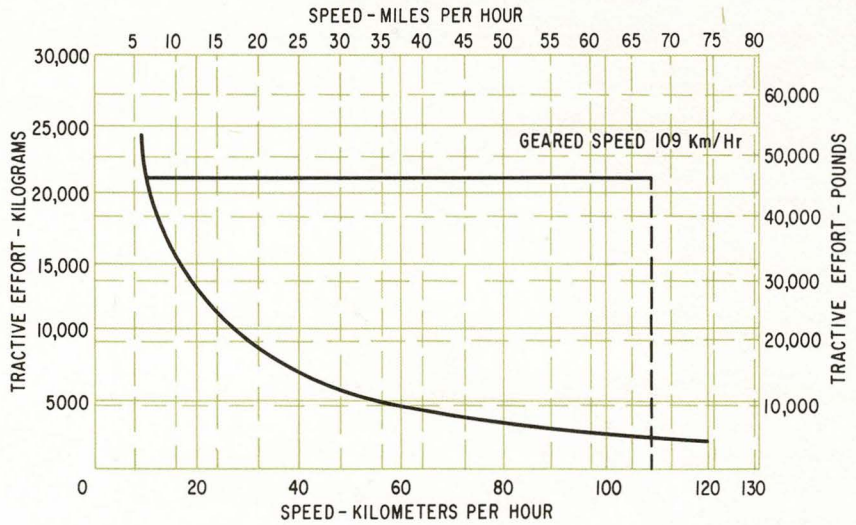


DL-535-S

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|--------------------------------|---------------------------|------------------------------|---------------------|
| 1. Engine | 8. Aftercooler | 15. Lubricating Oil Cooler | 22. Sand Box |
| 2. Main Generator | 9. Traction Motor | 16. Lubricating Oil Filter | 23. Hand Brake |
| 3. Exciter-Auxiliary Generator | 10. Traction Motor Blower | 17. Lubricating Oil Strainer | 24. Cab Seat |
| 4. Control Stand | 11. Radiator | 18. Air Compressor-Exhauster | 25. Steam Generator |
| 5. Control Compartment | 12. Radiator Fan | 19. Main Reservoir | 26. Dynamic Brake |
| 6. Turbosupercharger | 13. Radiator Fan Clutch | 20. Engine Water Tank | 27. Water Tank |
| 7. Turbosupercharger Filters | 14. Air Filters | 21. Fuel Tank | |

TRACTIVE EFFORT

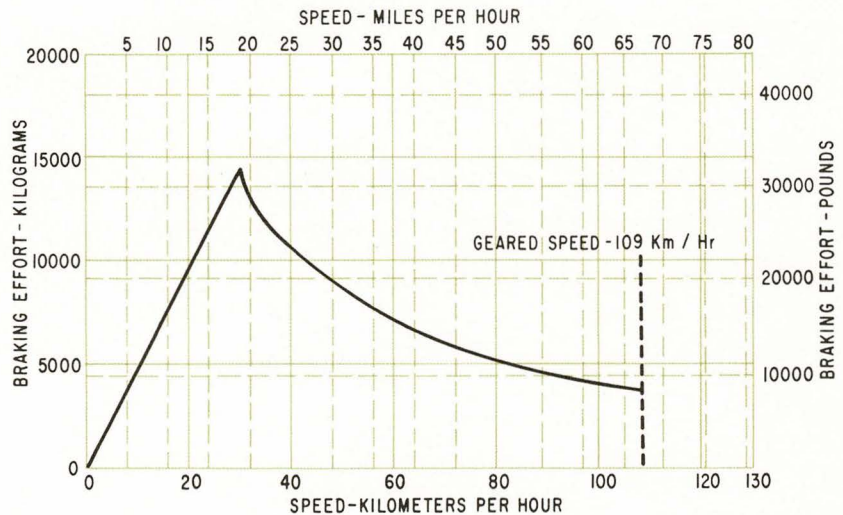
GEAR RATIO	TOP GEARED SPEED		MAXIMUM CONTINUOUS TRACTIVE EFFORT			
	Km/h.	MPH	Kg.	Lbs.	Km/h.	MPH
WITH 914 mm (36") wheels						
92:19	109	68	21 410	47,200	10,9	6.8
94:17	96	60	24 490	54,000	8,7	5.4
WITH 1016 mm (40") wheels						
92:19	122	76	19 280	42,500	12,6	7.8
94:17	108	67	22 000	48,500	10,3	6.4



Tractive Effort Characteristics with 914 mm (36") Wheels and Basic 92:19 Gearing.

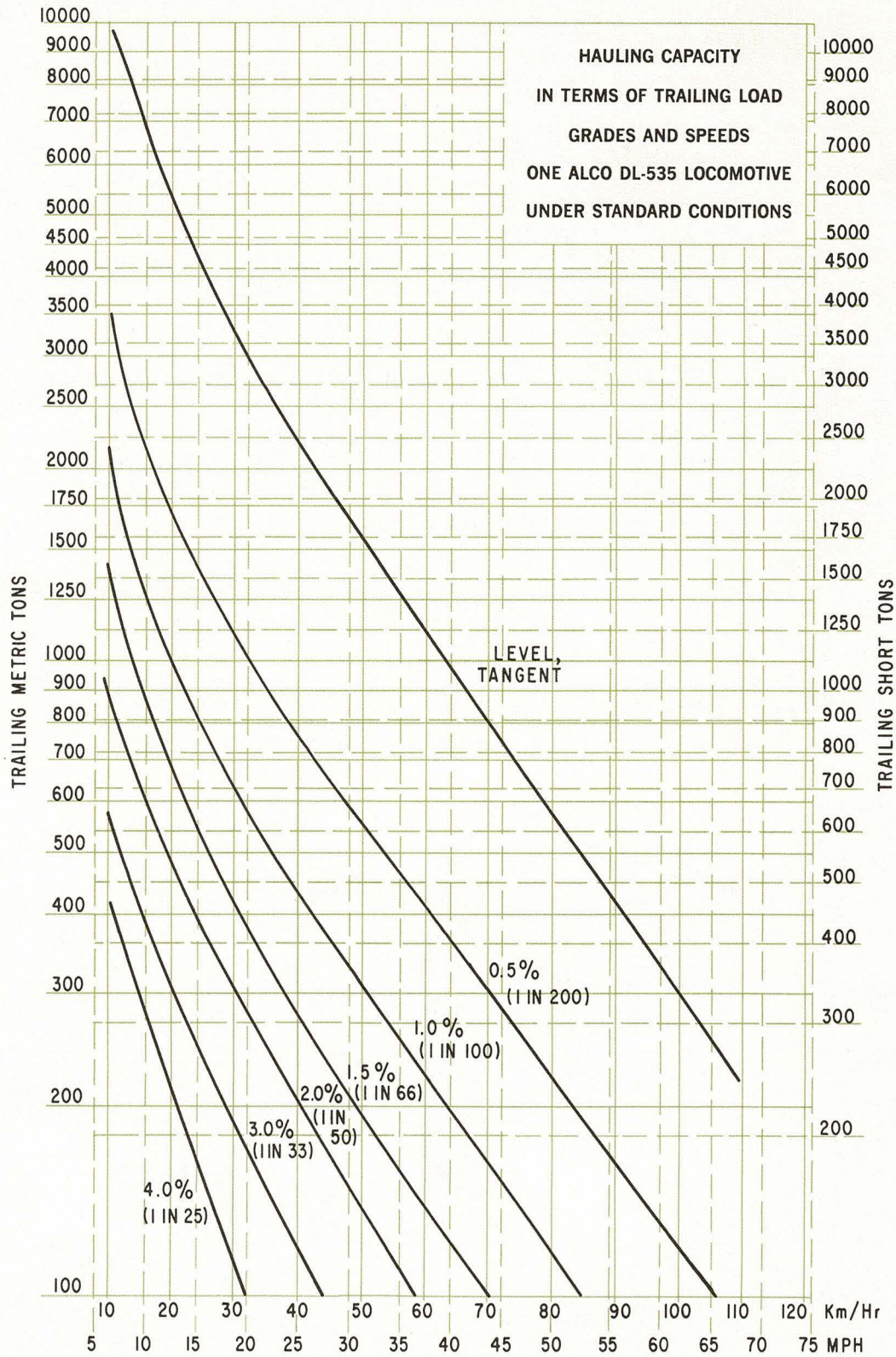
BRAKING EFFORT

GEAR RATIO	BRAKE PEAK SPEED		PEAK BRAKING EFFORT	
	Km/h.	MPH	Kg.	Lbs.
WITH 914 mm (36") wheels				
92:19	31	19	14 515	32,000
94:17	27	17	15 650	34,500
WITH 1016 mm (40") wheels				
92:19	31	19	14 515	32,000
94:17	27	17	15 650	34,500



Braking Effort Characteristics with 914 mm (36") Wheels and Basic 92:19 Gearing.

TONNAGE RATING



NOTE: The hauling capacity shown above is for 4 axle 35 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

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ASSOCIATES
AND
LICENSEES**

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England: A. E. I. (Associated Electrical Industries), Manchester, England

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India: Diesel Locomotive Works, Varanasi, U. P., India

Spain: Cia. Euskalduna, Madrid, Spain



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