

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

GENERAL SPECIFICATION DL-535

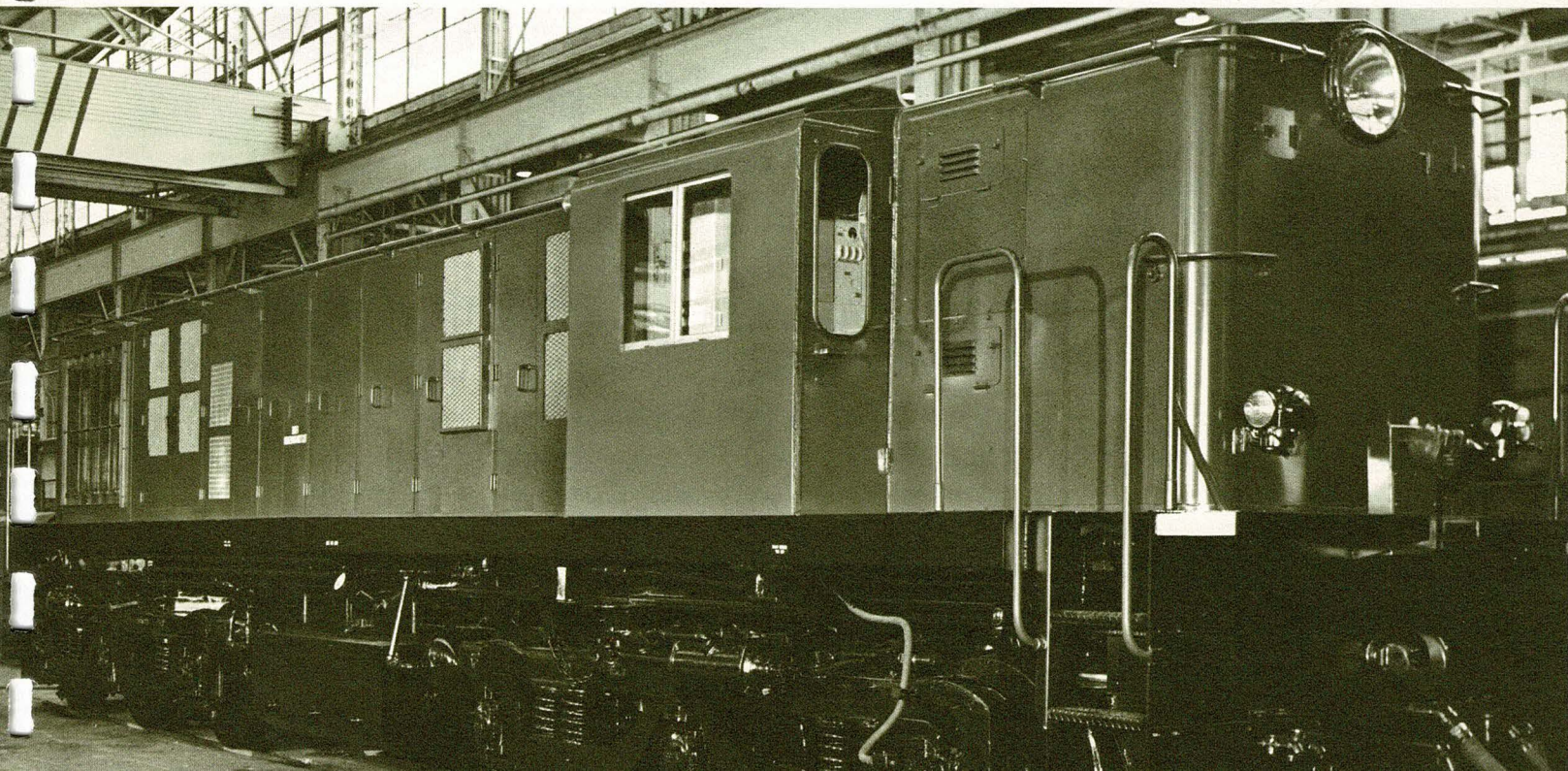
**WITH 1215 CV NET INPUT TO THE GENERATOR**

**ALCO**  
**1065/965 CV**  
**SERIES C-11 (1050/950 HP)**  
**DIESEL-ELECTRIC**  
**LOCOMOTIVE**

GENERAL SPECIFICATION DL-534

**WITH 965 CV NET INPUT TO THE GENERATOR**

**STANDARD EXPORT DIESEL-ELECTRIC LOCOMOTIVES FOR VERY  
REDUCED CLEARANCES AND VERY LOW AXLE LOADS**



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

- A versatile unit for main- and branchline duties where very low axle loads from 11,8 metric tons (26,000 lbs.) and very restricted clearances are required.
- For gauges of 914 mm (36") and upwards.
- Dynamic brake can be applied.

## DL-535 General Characteristics

**Diesel Engine:** ALCO 6-251-D 1370/1215 CV (1350/1200 HP)

**Wheel Arrangement:** Co-Co

**Principal Dimensions:**

Height (maximum)—3378 mm (11' 1")

Width (maximum) — 2730 mm (8' 11½")

Length (over body) — 13818 mm (45' 4")

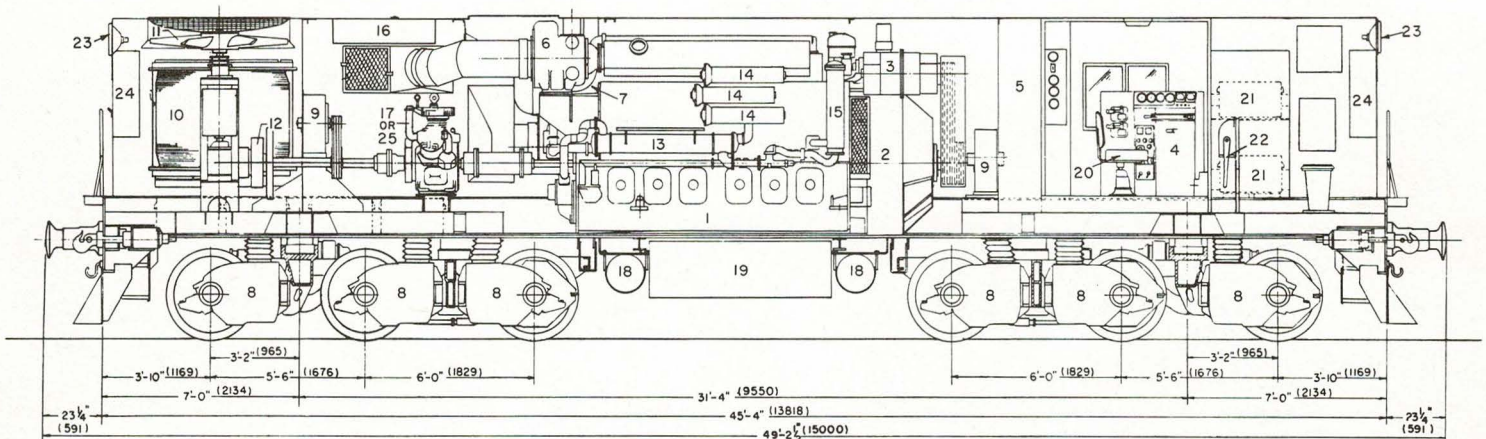
**Basic Locomotive Weight:** 71 670 Kg. (158,000 lbs.)

**Axle Load:** 11 945 Kg. (26,333 lbs.)

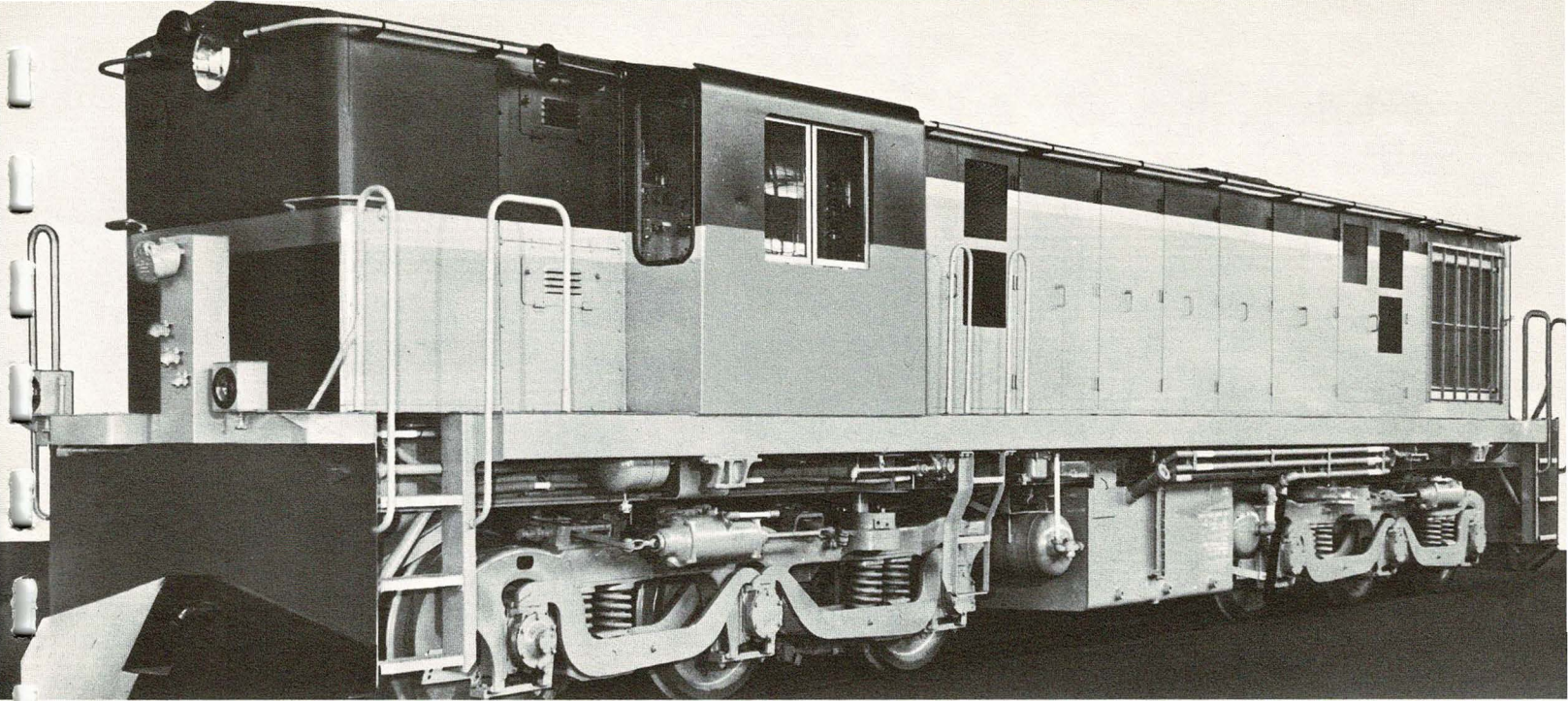
**Wheel Diameter Basic:** 914 mm (36")

**Fuel Oil Capacity Basic:** 2 271 l. (600 U.S. Gallons); (500 Imp. Gallons)

**Multi-Gauge Traction Motors** for meter gauge upwards.



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



## TRACTIVE EFFORT

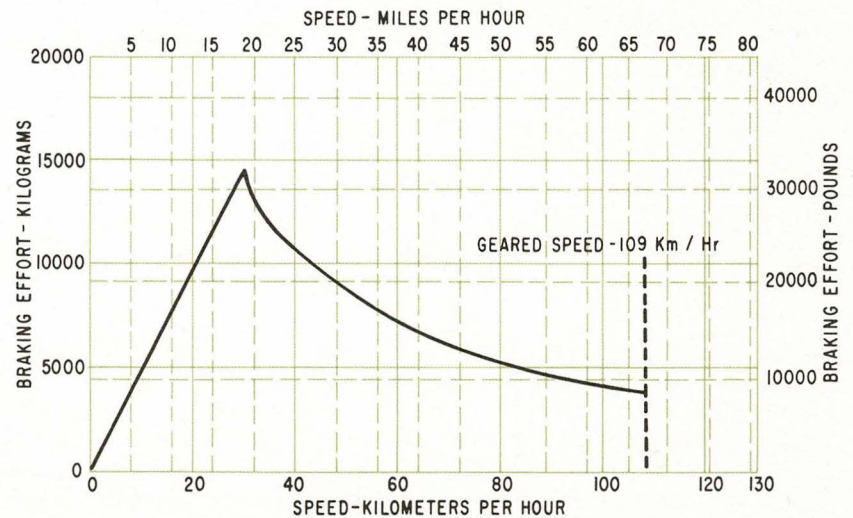
GEAR RATIO	TOP GEARED SPEED		MAXIMUM CONTINUOUS TRACTIVE EFFORT			
	Km/h.	MPH	Kg.	Lbs.	Km/h.	MPH
WITH 914 mm (36") wheels						
92:19	109	68	21 410	47,200	10,9	6.8
94:17	96	60	24 490	54,000	8,7	5.4
WITH 1016 mm (40") wheels						
92:19	122	76	19 280	42,500	12,6	7.8
94:17	108	67	22 000	48,500	10,3	6.4



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

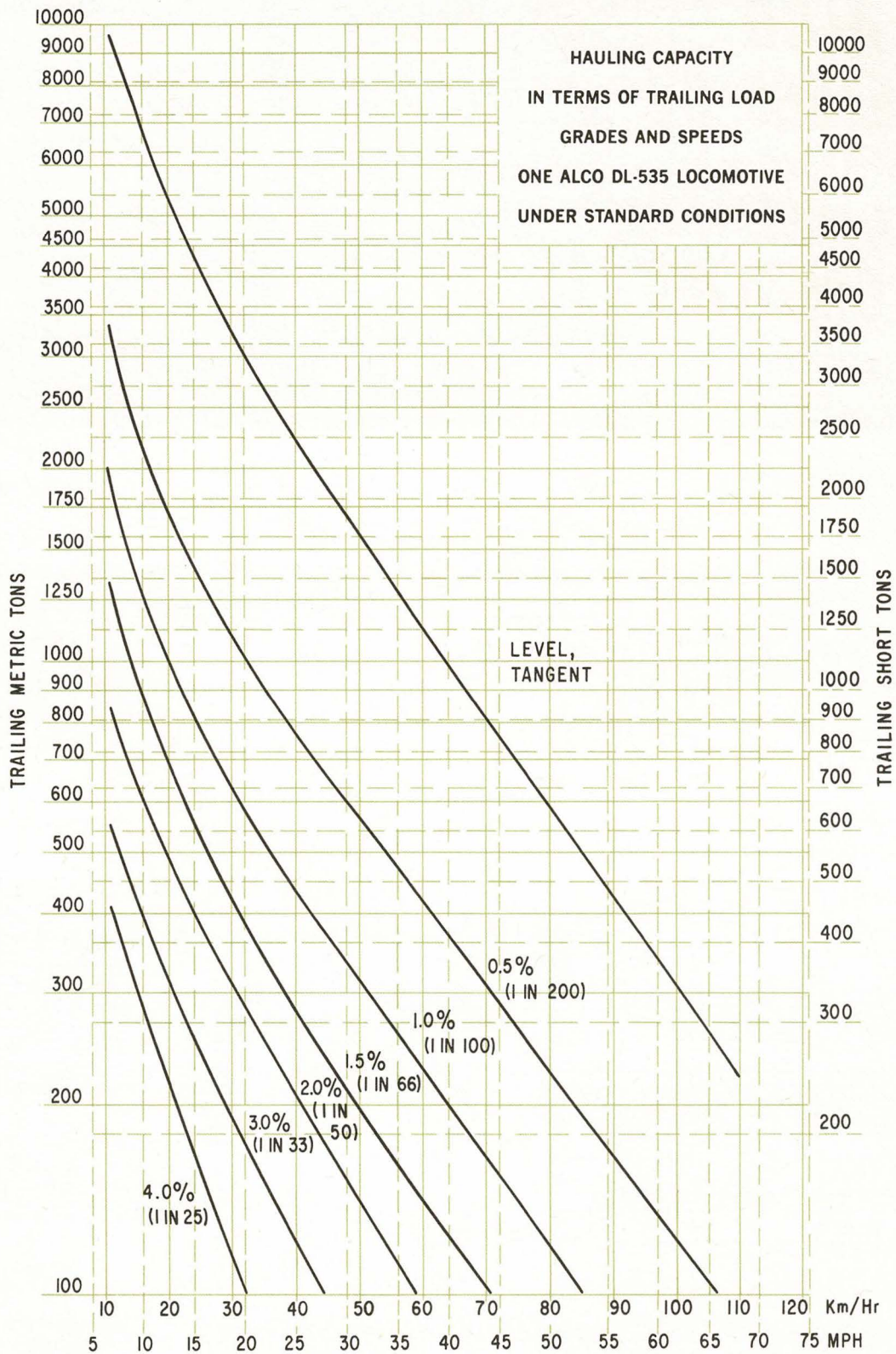
## BRAKING EFFORT

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

# ALCO 1065/965 CV

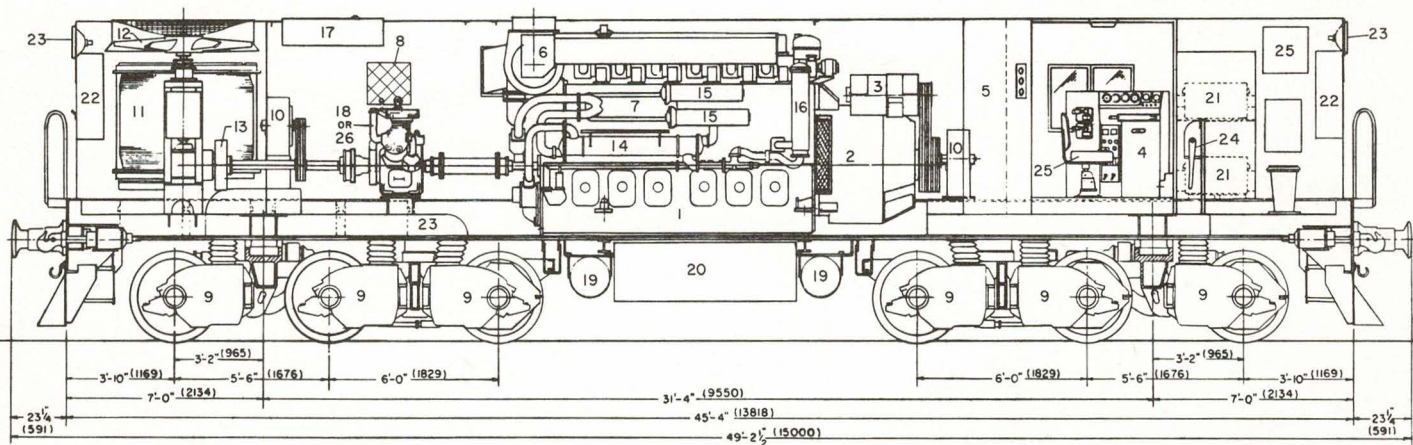
SERIES C-11 (1050/950 HP)

## DIESEL-ELECTRIC LOCOMOTIVE

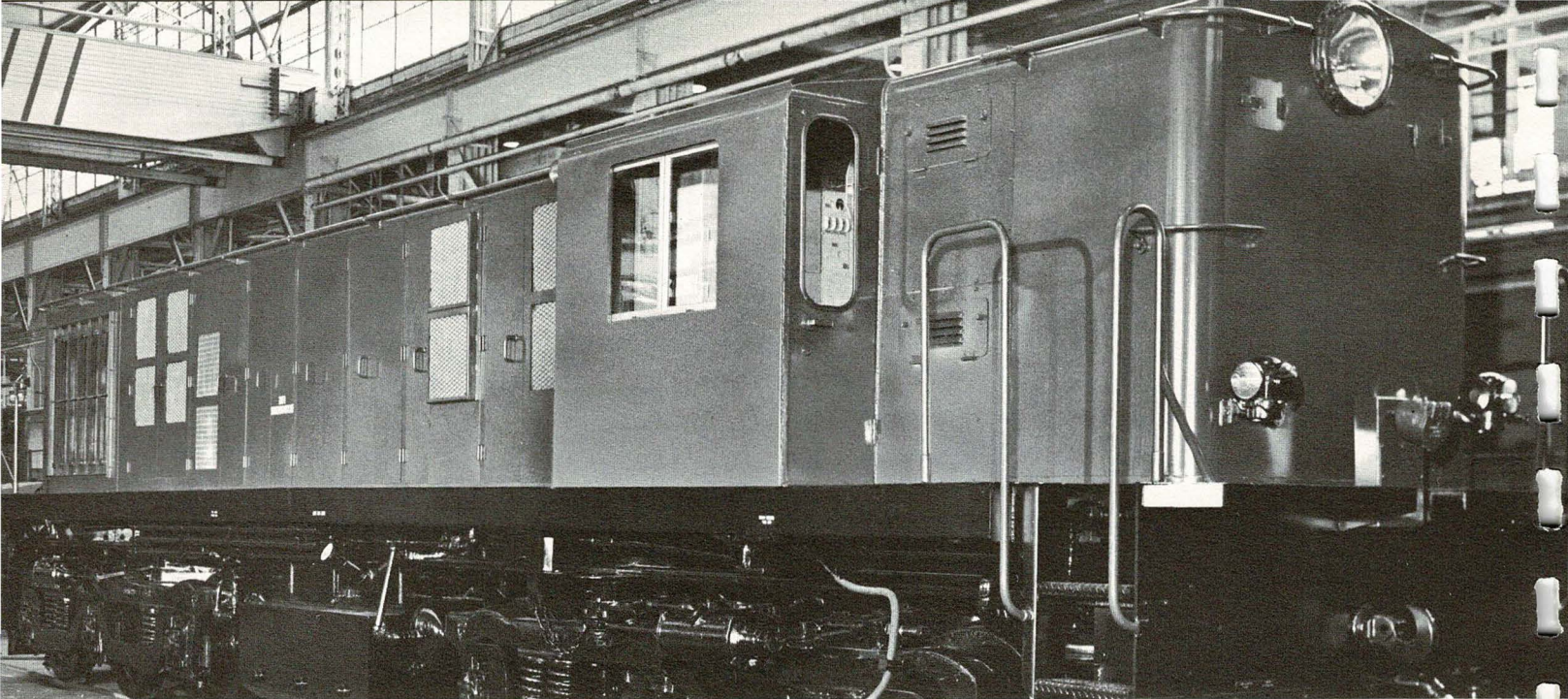
### DL-534 General Characteristics

- A versatile unit for main- and branchline duties where very low axle loads from 11,8 metric tons (26,000 lbs.) and very restricted clearances are required.
- For gauges of 914 mm (36") and upwards.
- Dynamic brake can be applied.

**Diesel Engine:** ALCO 6-251-B 1065/965 CV (1050/950 HP)  
**Wheel Arrangement:** Co-Co  
**Principal Dimensions:**  
 Height (maximum) — 3378 mm (11' 1")  
 Width (maximum) — 2730 mm (8' 11½")  
 Length (over body) — 13818 mm (45' 4")  
**Basic Locomotive Weight:** 70 764 Kg. (156,000 lbs.)  
**Axle Load:** 11 794 Kg. (26,000 lbs.)  
**Wheel Diameter Basic:** 914 mm (36")  
**Fuel Oil Capacity Basic:** 2 271 l. (600 U.S. Gallons); (500 Imp. Gallons)  
**Multi-Gauge Traction Motors** for meter gauge upwards

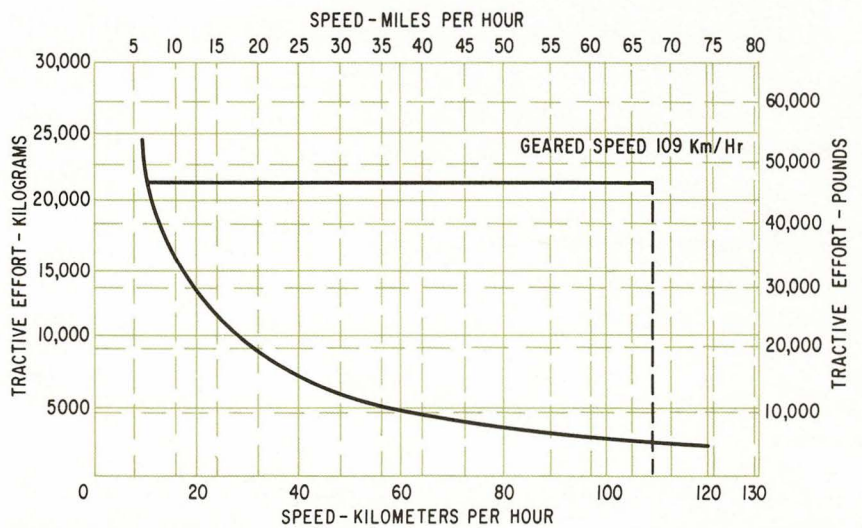


- |                                  |                            |                              |                              |
|----------------------------------|----------------------------|------------------------------|------------------------------|
| 1. Engine                        | 8. Air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



## TRACTIVE EFFORT

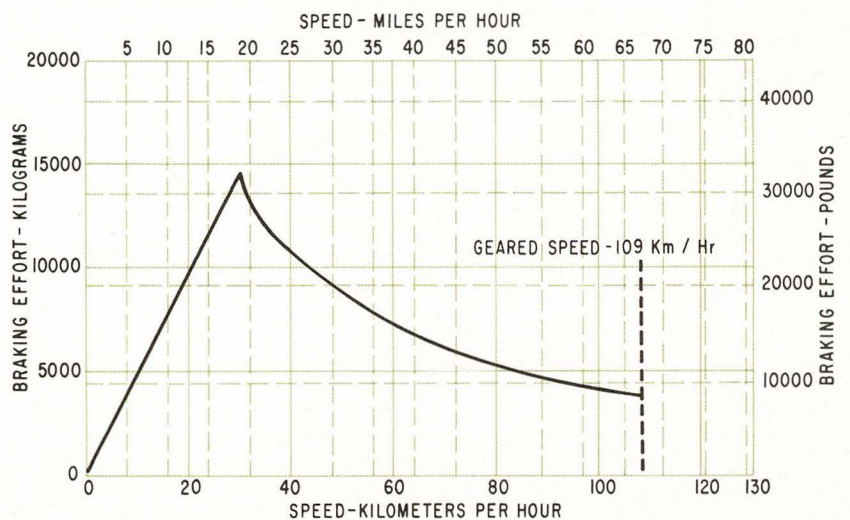
GEAR RATIO	TOP GEARED SPEED		MAXIMUM CONTINUOUS TRACTIVE EFFORT			
	Km/h.	MPH	Kg.	Lbs.	Km/h.	MPH
WITH 914 mm (36") wheels						
92:19	109	68	21 410	47,200	8,5	5.3
WITH 1016 mm (40") wheels						
92:19	122	76	19 280	42,500	9,6	6.0



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

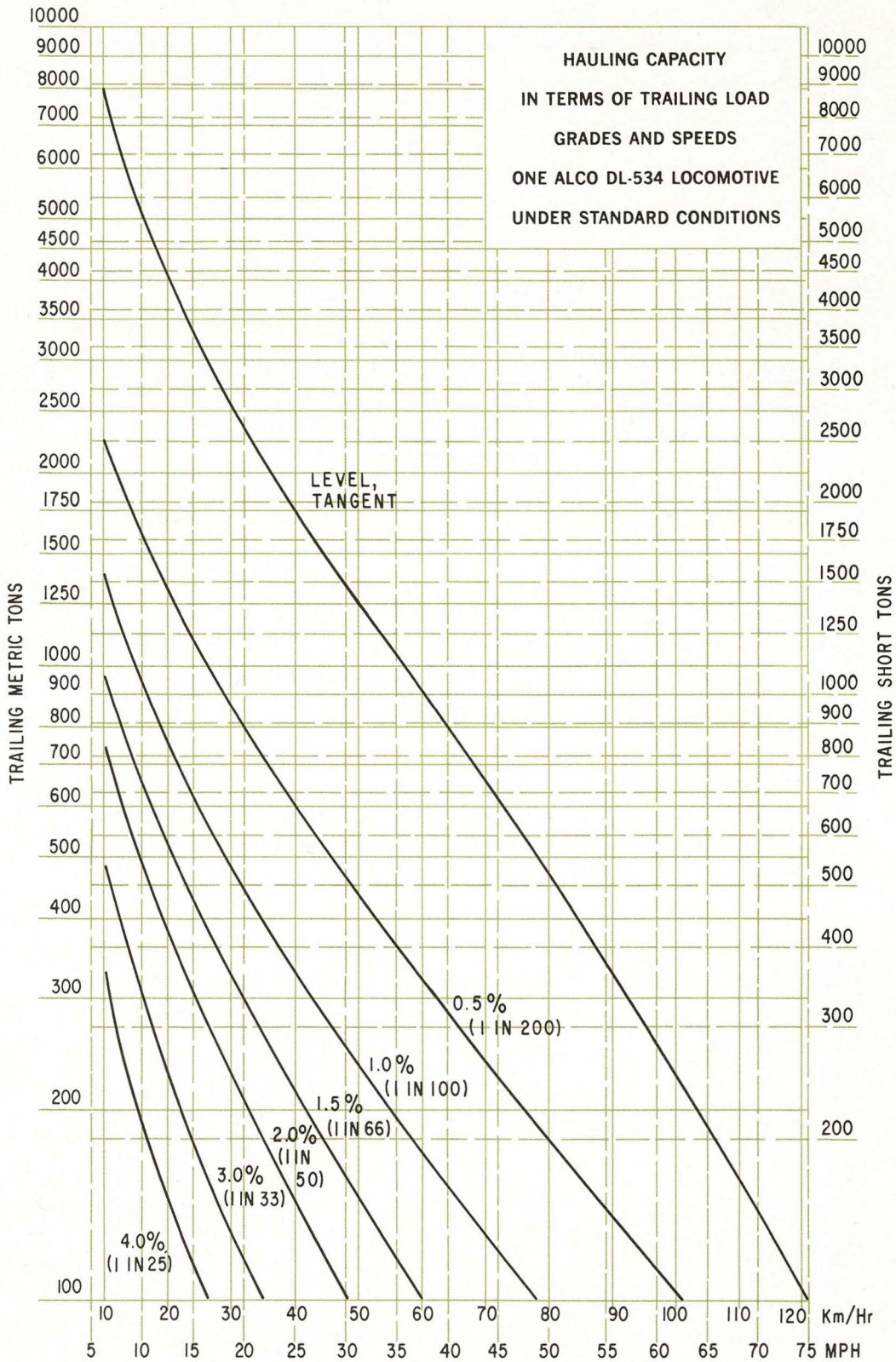
## BRAKING EFFORT

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
WITH 1016 mm (40") wheels				
92:19	31	19	14 515	32,000



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

**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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