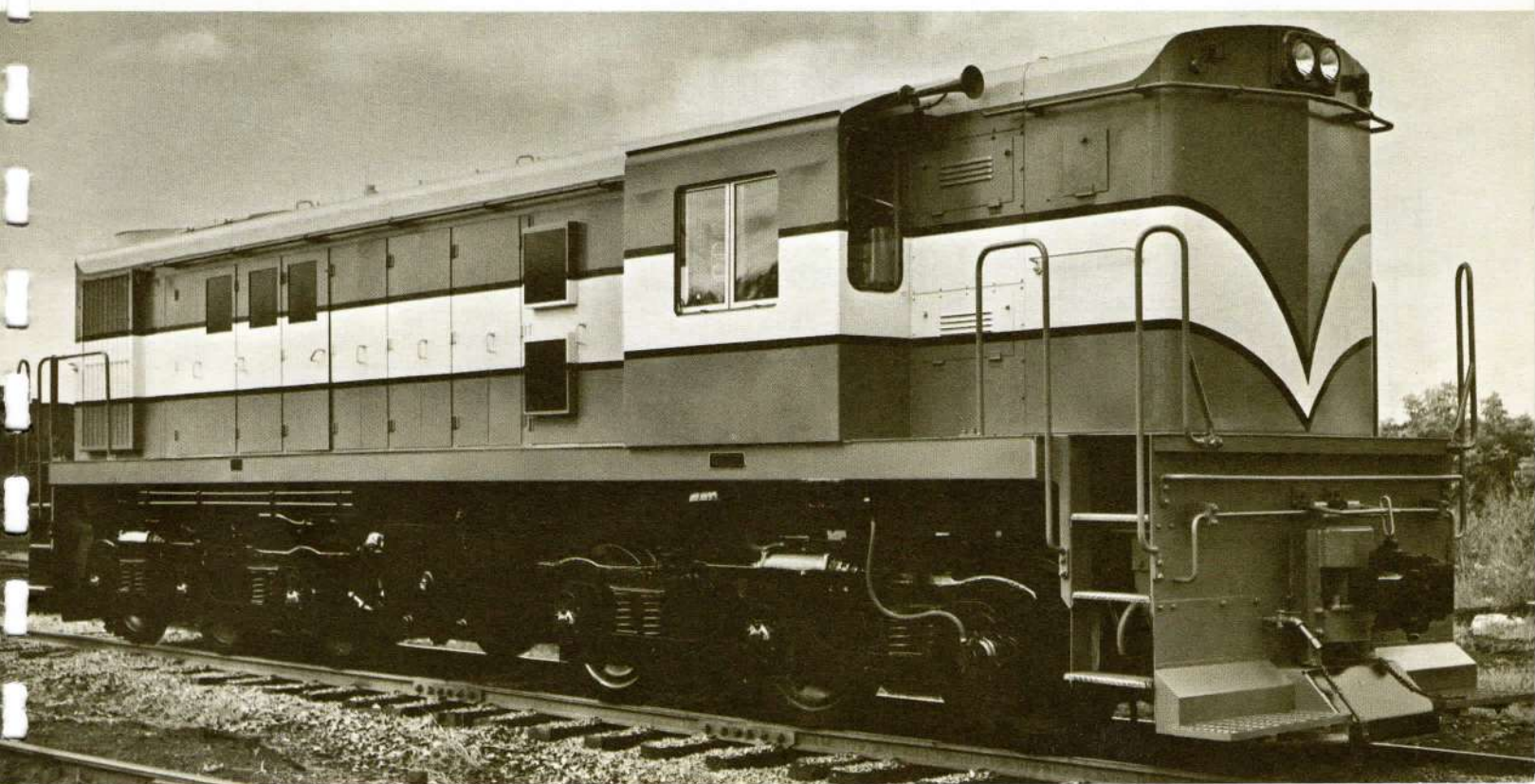


ALCO

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

GENERAL SPECIFICATION DL-531

**STANDARD EXPORT, ALL PURPOSE LIGHTWEIGHT SIX AXLE DIESEL-ELECTRIC
LOCOMOTIVE WITH 965 CV NET INPUT TO THE GENERATOR**



ALCO

1065/965 CV

SERIES C-11 (1050/950 HP)

DIESEL-ELECTRIC LOCOMOTIVE

- A versatile unit for main or branch-line passenger, freight or shunting duty, available in Co-Co or A1A-A1A versions.*
- For all gauges from 914 mm (36") upwards, built for axle loads from 11,3 metric tons (25,000 lbs.)
- Dynamic brake can be applied.
- Steam generator for train heating can be applied.

*The A1A-A1A version can be supplied equipped for conversion to Co-Co when desired.

DL-531 General Characteristics

Diesel Engine: ALCO 6-251-B 1065/965 CV (1050/950 HP)

Wheel Arrangement: Co-Co; A1A-A1A optional

Principal Dimensions:

Height (maximum) — 3658 mm (12'0")

Width (maximum) — 2743 mm (9'0")

Length (over body) — 12802 mm (42'0")

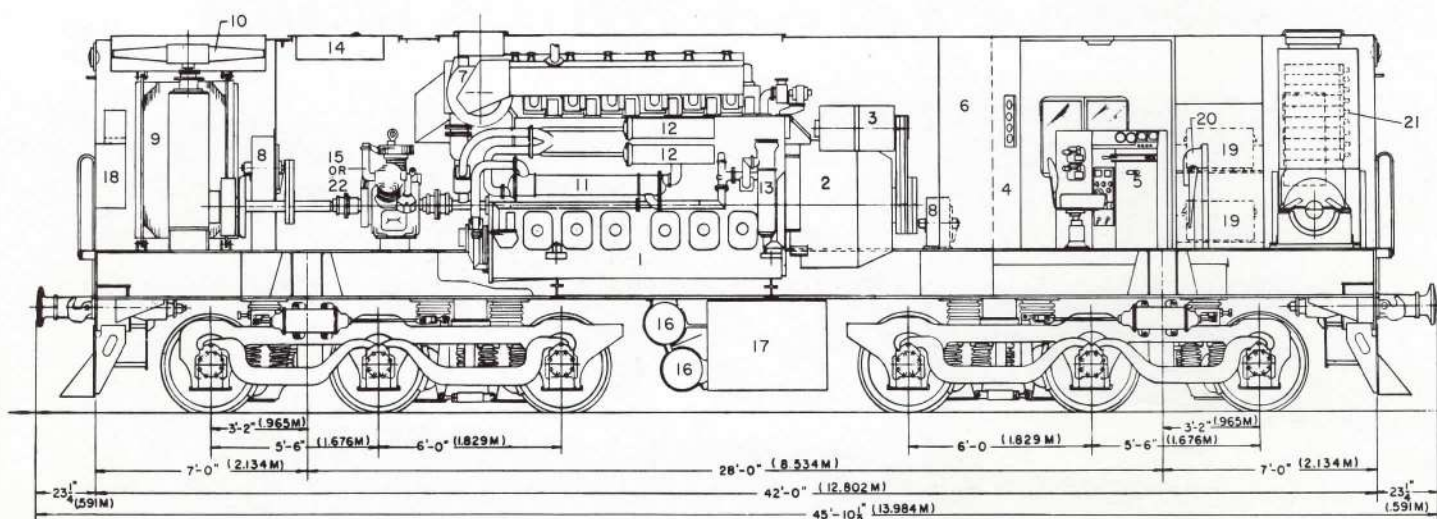
Basic Locomotive Weight: 68 040 Kg. (150,000 lbs.)

Axle Load: 11 340 Kg. (25,000 lbs.)

Wheel Diameter Basic: 914 mm (36")

Fuel Oil Capacity Basic: 2 270 l. (600 U.S. Gallons); (500 Imp. Gallons)

Multi-Gauge Traction Motors from meter gauge upwards; special design for 914 mm (36") gauge

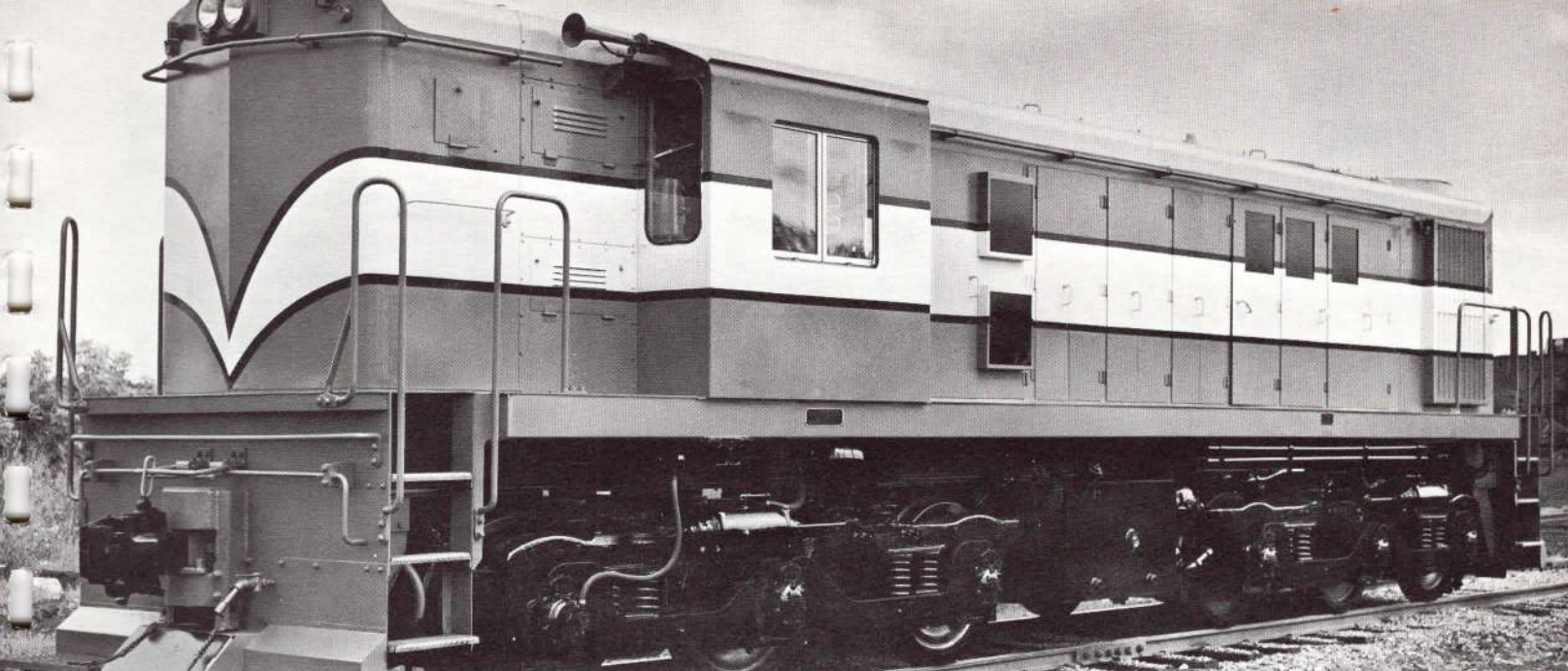


1. Engine
2. Main Generator
3. Exciter-Auxiliary Generator
4. Gauge Panel
5. Control Stand
6. Control Compartment

7. Turbosupercharger
8. Traction Motor Blower
9. Radiators
10. Radiator Fan
11. Lubricating Oil Cooler
12. Lubricating Oil Filters

13. Lubricating Oil Strainer
14. Engine Water Tank
15. Air Compressor
16. Main Air Reservoir
17. Fuel Tank

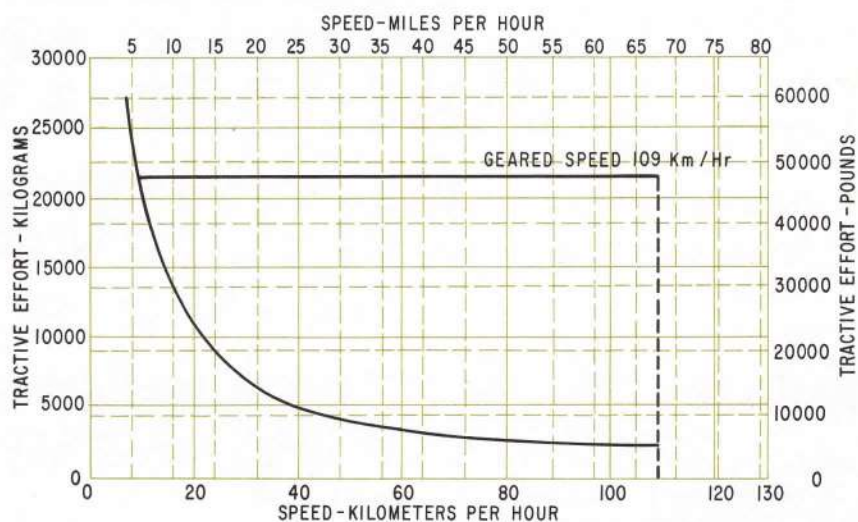
18. Sand Box
19. Batteries
20. Hand Brake
21. Dynamic Brake
22. Compressor-Exhauster



TRACTIVE EFFORT

GEAR RATIO	TOP GEARED SPEED		MAXIMUM CONTINUOUS TRACTIVE EFFORT			
	Km/h.	MPH	Kg.	Lbs.	Km/h.	MPH
WITH 914mm (36") wheels						
92:19	109	68	21 410	47,200	8,5	5.3
94:17*	96	60	24 490	54,000	7,0	4.3
WITH 1016mm (40") wheels						
94:17*	108	67	22 000	48,500	8,0	5,0

*For special applications only

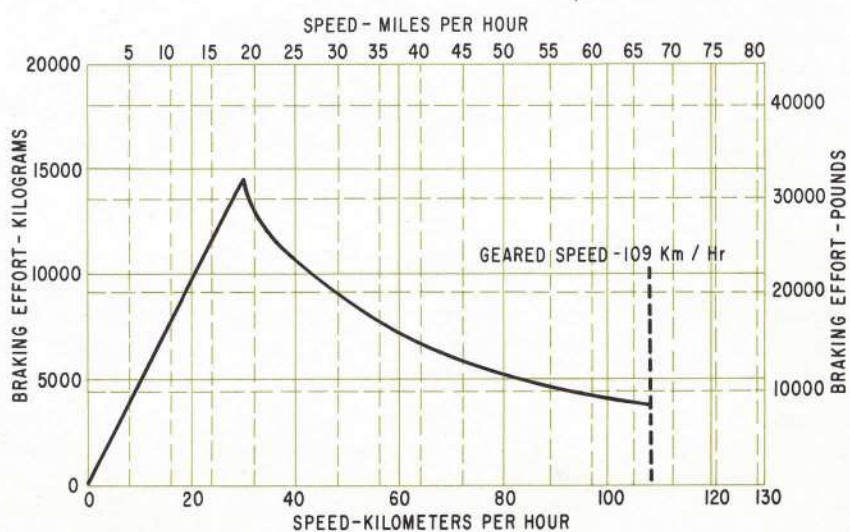


Tractive Effort Characteristics with 914 mm (36") Wheels and Basic 92:19 Gearing.

BRAKING EFFORT

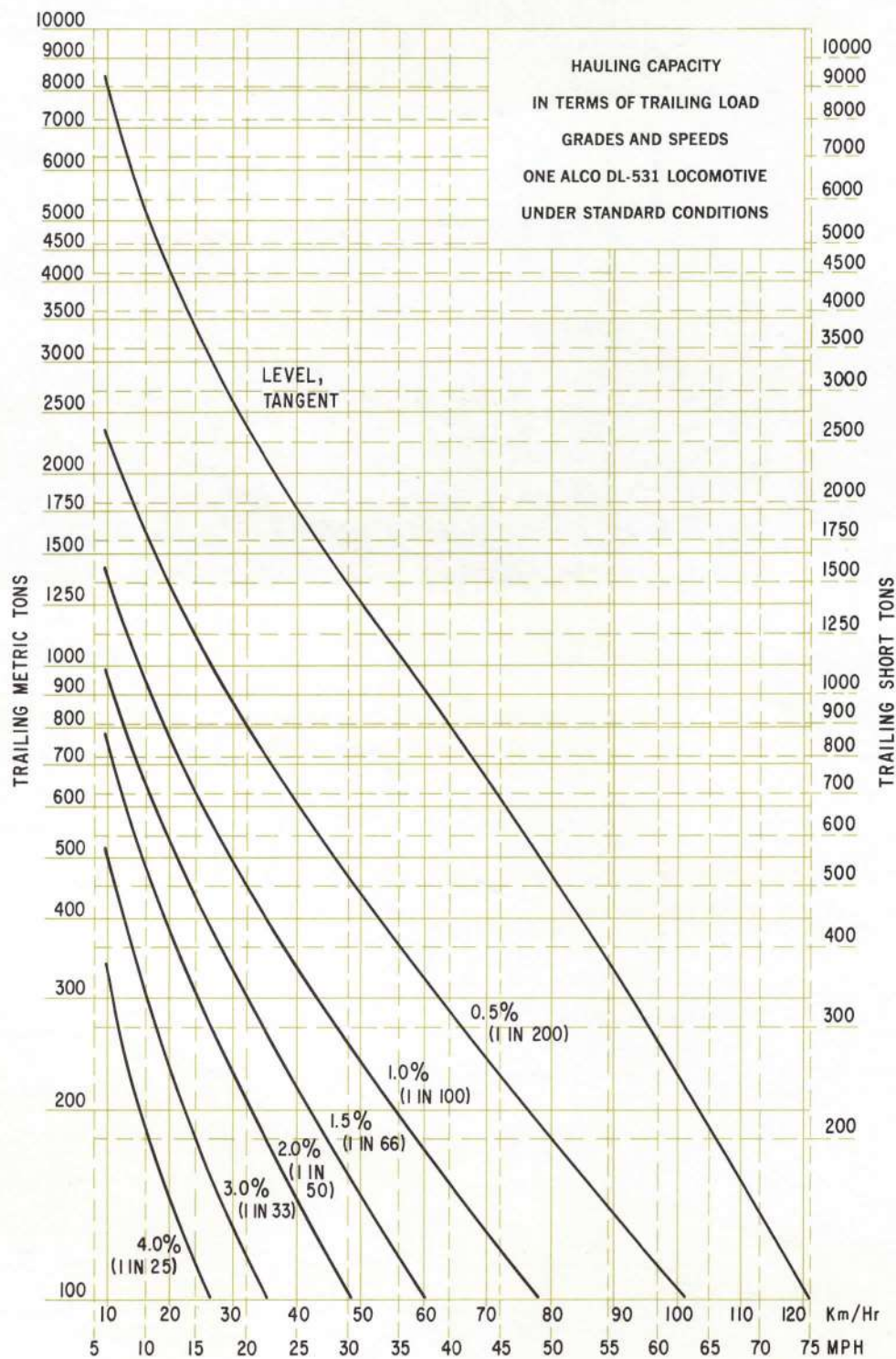
GEAR RATIO	BRAKE PEAK SPEED		PEAK BRAKING EFFORT	
	Km/h.	MPH	Kg.	Lbs.
WITH 914mm (36") wheels				
92:19	31,0	19	14 515	32,000
94:17*	27,0	17	15 650	34,500
WITH 1016mm (40") wheels				
94:17*	27,0	17	15 650	34,500

*For special applications only



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

TONNAGE RATING



NOTE:

The hauling capacity shown here 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

ALCO

ALCO PRODUCTS, INC., 530 FIFTH AVENUE, NEW YORK, N.Y., 10036

Cable Address: Locomotive, New York

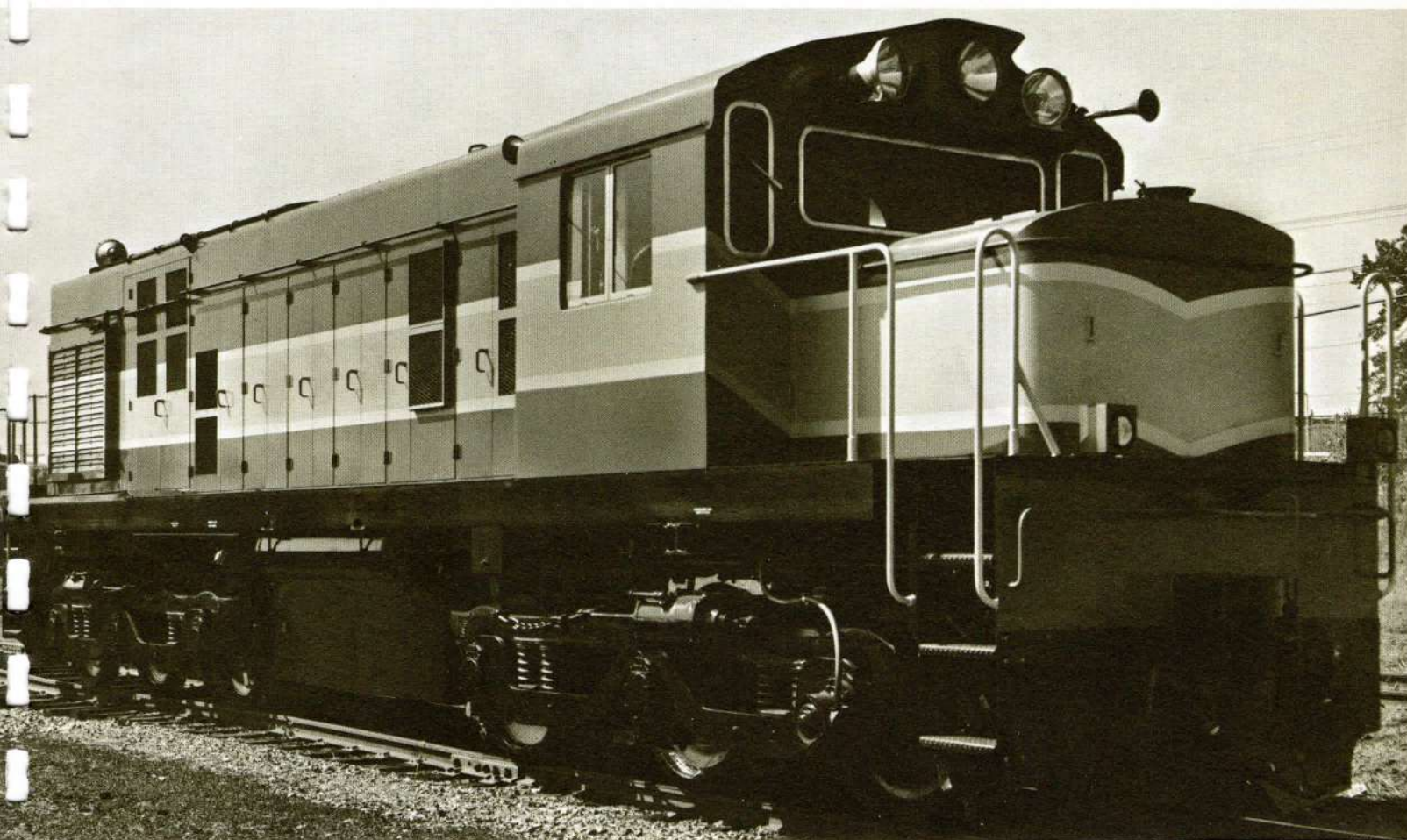
ALCO

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

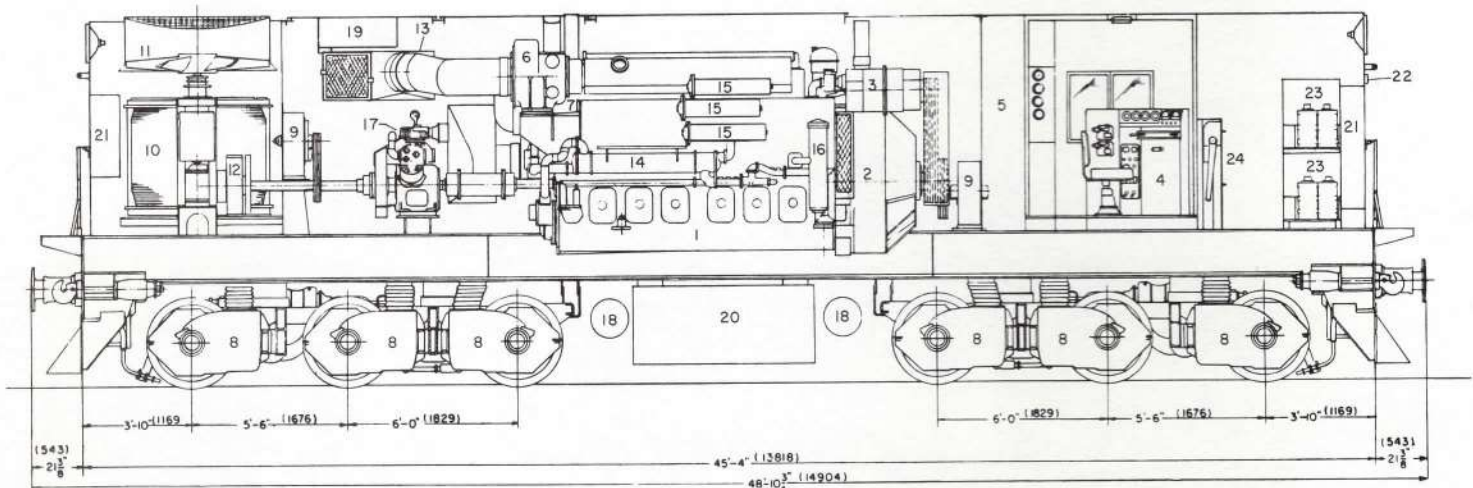


ALCO 1370/1215 CV SERIES C-14 (1350/1200 HP) DIESEL-ELECTRIC LOCOMOTIVE

- 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 3/8")	3915 mm (12' 10 1/8")
Width (maximum) —	2915 mm (9' 6 3/4")	2943 mm (9' 7 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)

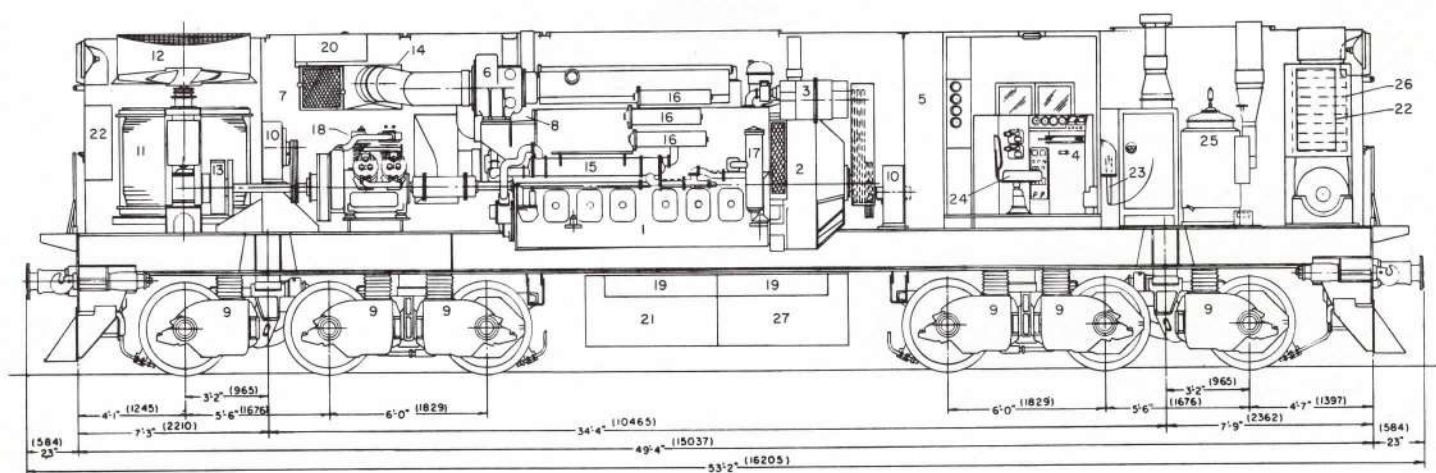


DL-535-B

- | | | | |
|--------------------------------|--------------------------|------------------------------|-----------------------|
| 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

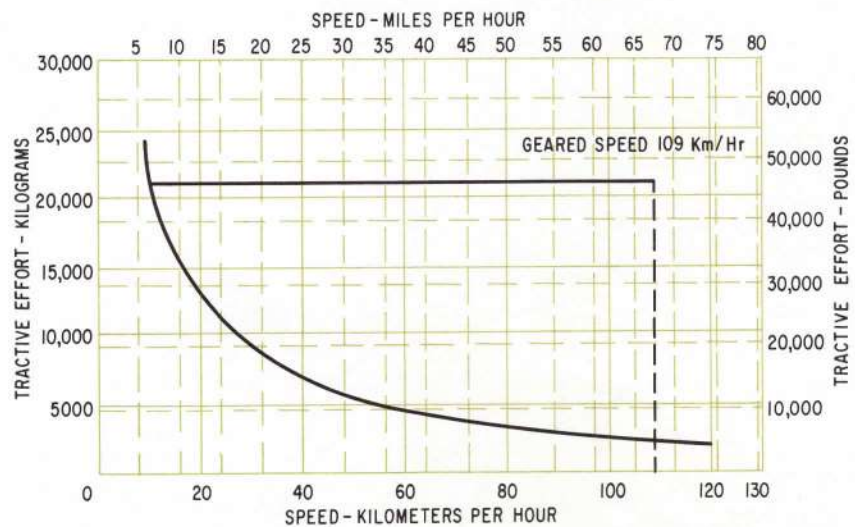


DL-535-S

- | | | | |
|--------------------------------|---------------------------|------------------------------|---------------------|
| 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 | |

TRACTION EFFORT

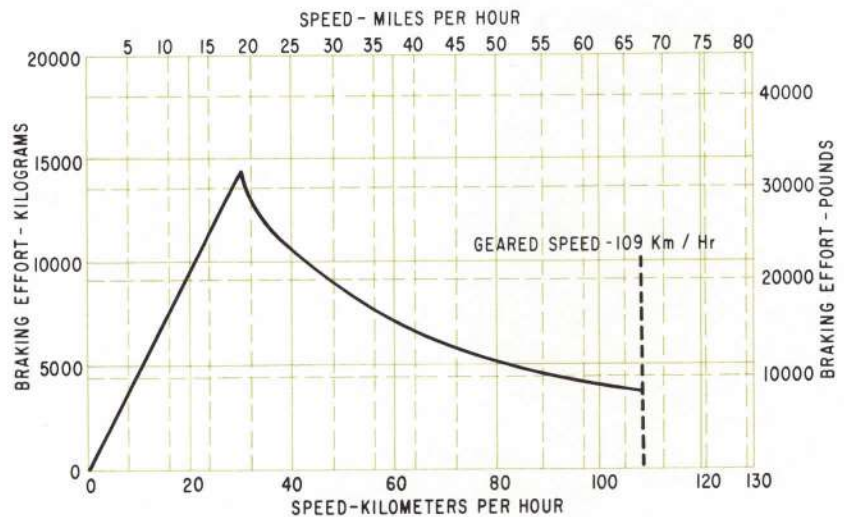
GEAR RATIO	TOP GEARED SPEED		MAXIMUM CONTINUOUS TRACTION EFFORT			
	Km/h.	MPH	Kg.	Lbs.	Km/h.	MPH
WITH 914 mm (36") wheels						
92:19	109	68	21 410	47,200	10,9	6.8
94:17	96	60	24 490	54,000	8,7	5.4
WITH 1016 mm (40") wheels						
92:19	122	76	19 280	42,500	12,6	7.8
94:17	108	67	22 000	48,500	10,3	6.4



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

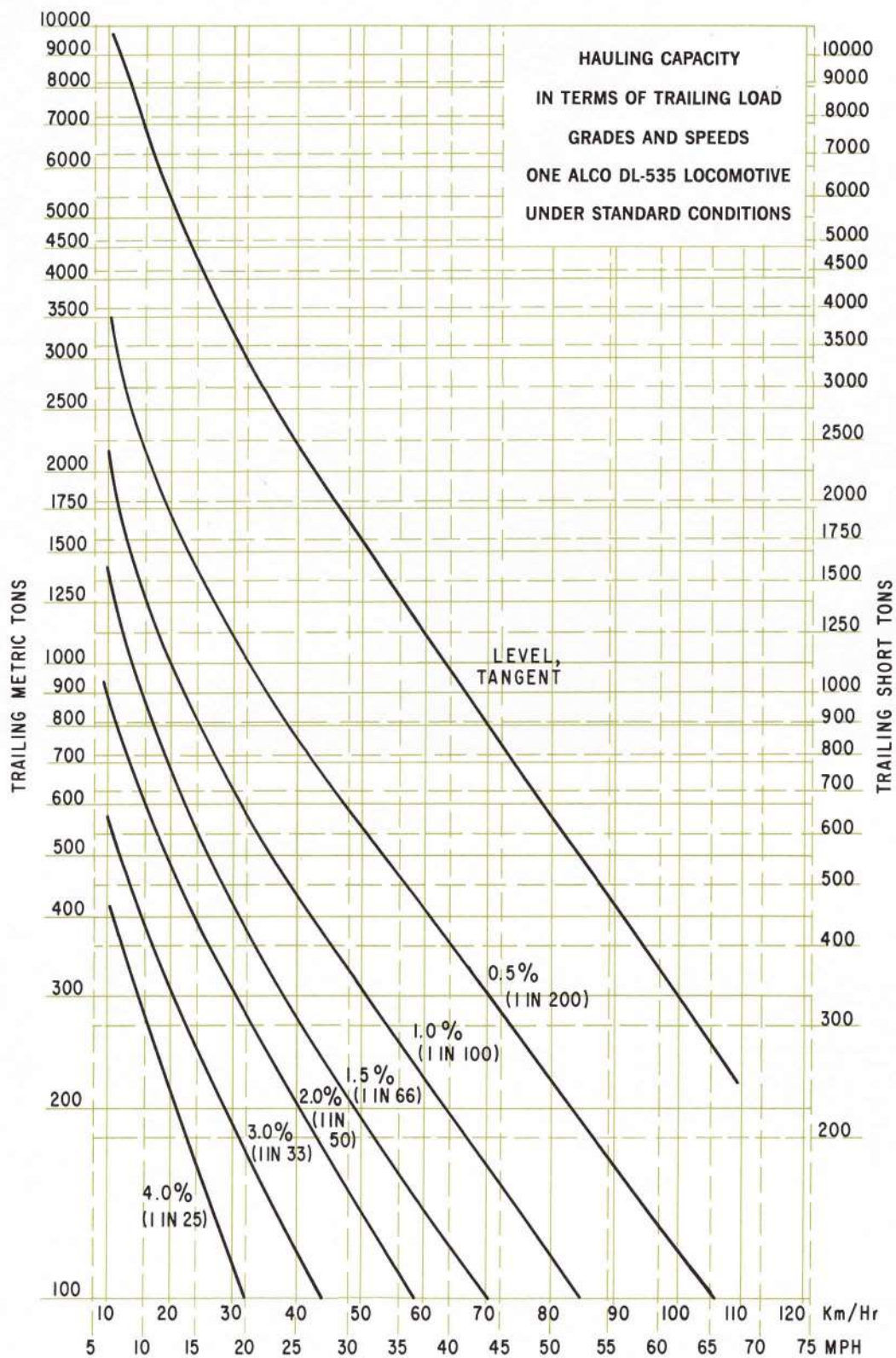
BRAKING EFFORT

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

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



ALCO

ALCO PRODUCTS, INC., 530 FIFTH AVENUE, NEW YORK, N.Y., 10036

Cable Address: Locomotive, New York

ALCO

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

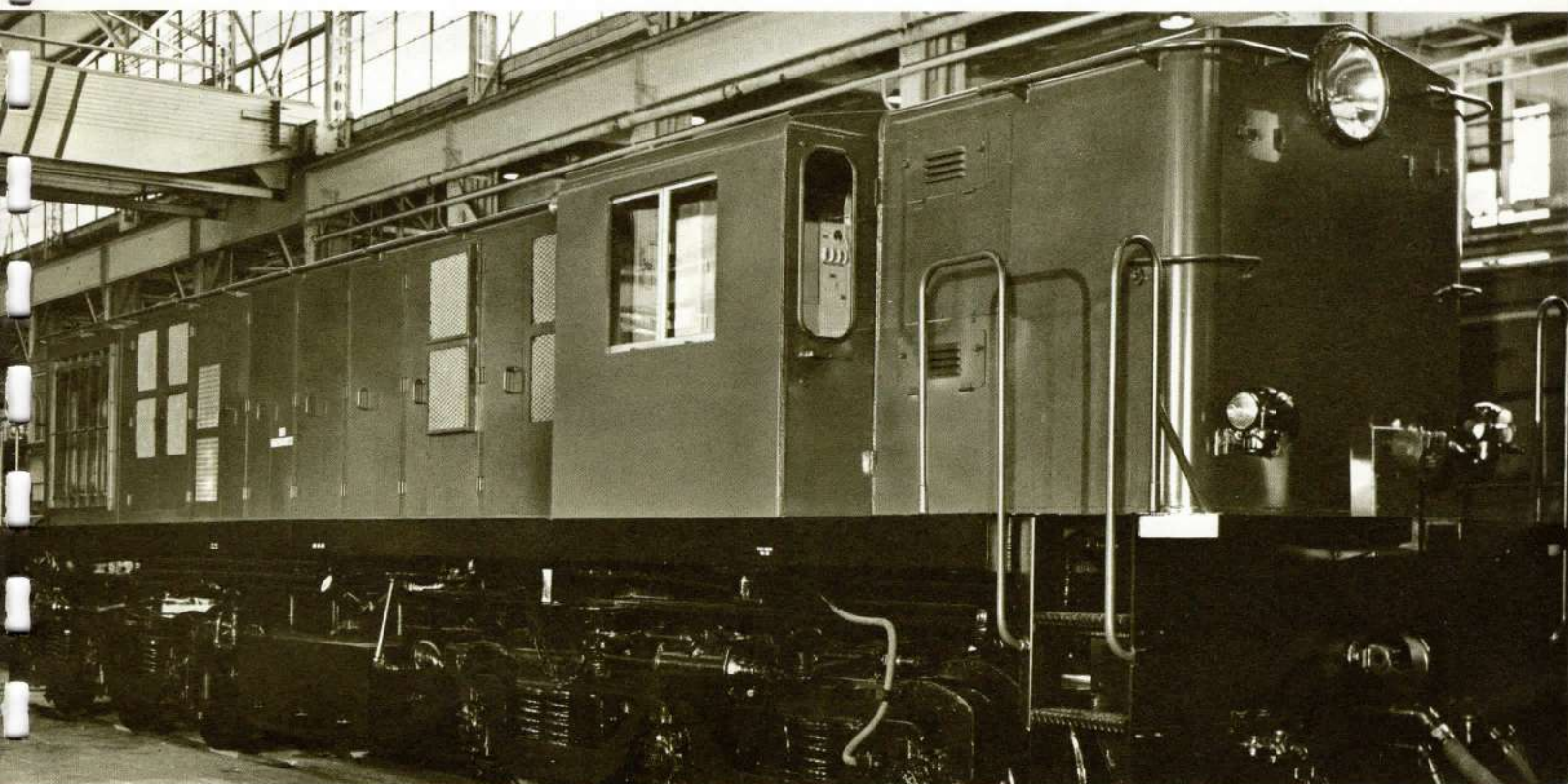
SERIES C-11 (1050/950 HP)

**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")

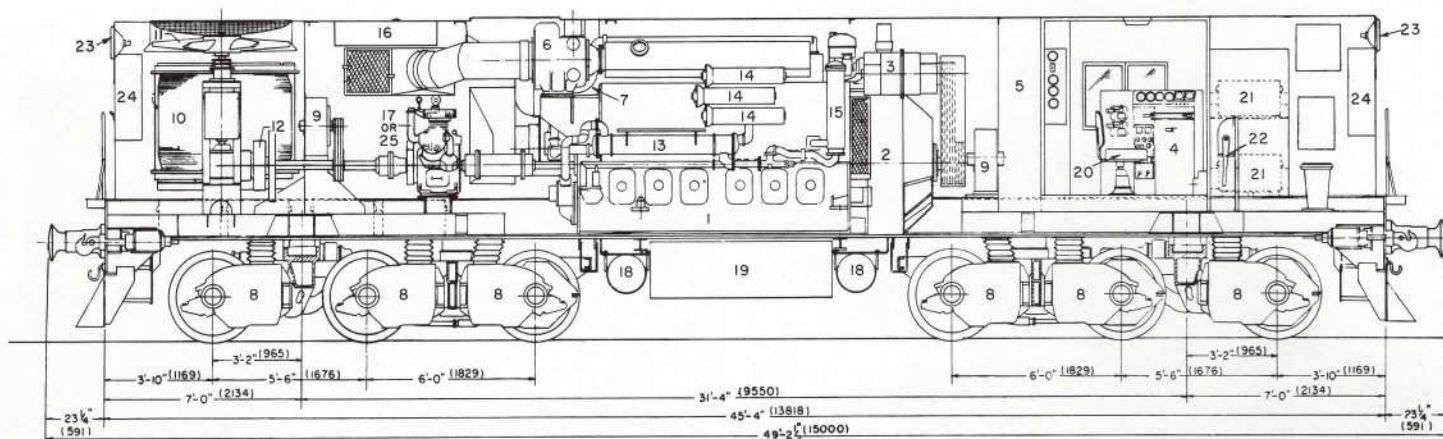
Basic Locomotive Weight: 71 670 Kg. (158,000 lbs.)

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

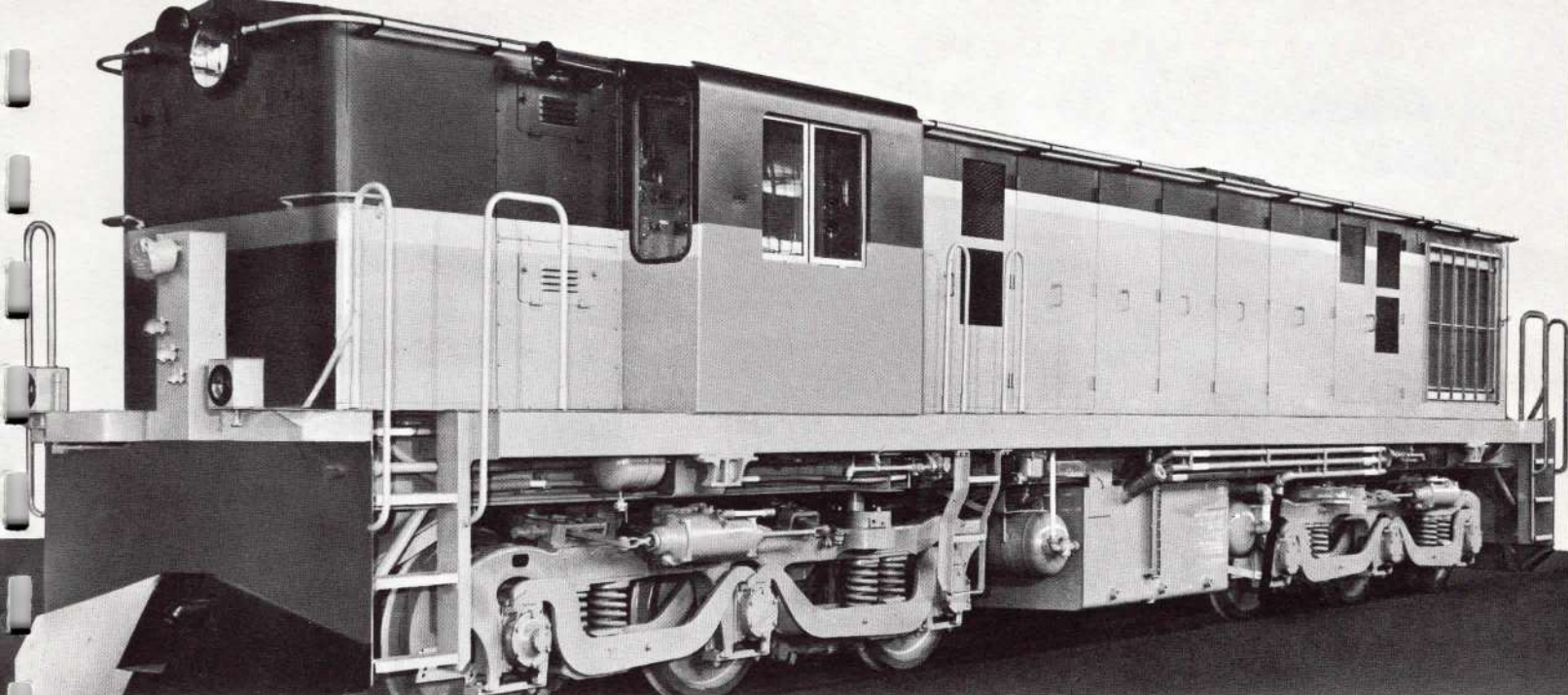
Wheel Diameter Basic: 914 mm (36")

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

Multi-Gauge Traction Motors for meter gauge upwards.

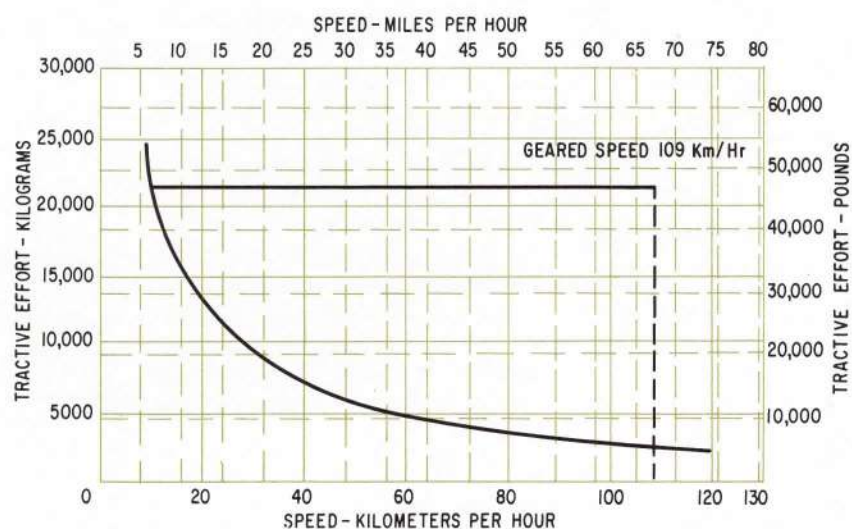


- | | | | |
|--------------------------------|----------------------------|------------------------------|------------------------------|
| 1. Engine | 8. Traction Motor | 14. Lubricating Oil Filters | 20. Cab Seat |
| 2. Main Generator | 9. Traction Motor Blower | 15. Lubricating Oil Strainer | 21. 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 | | | |



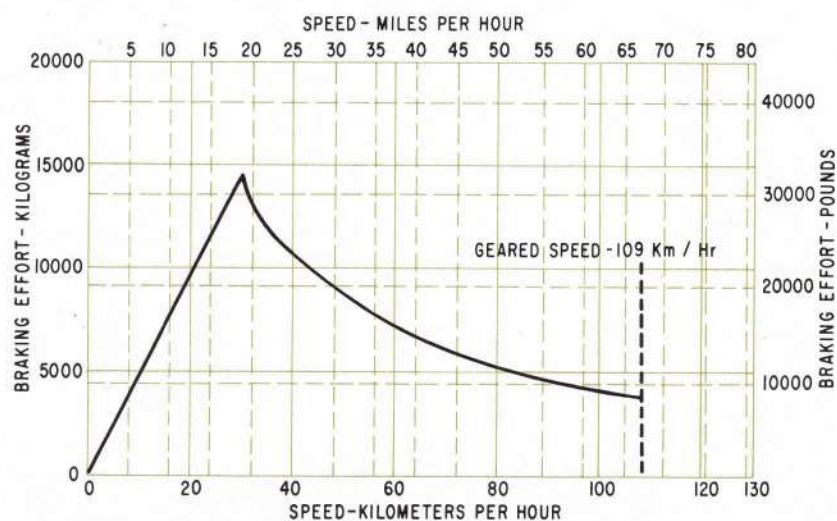
TRACTIVE EFFORT

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

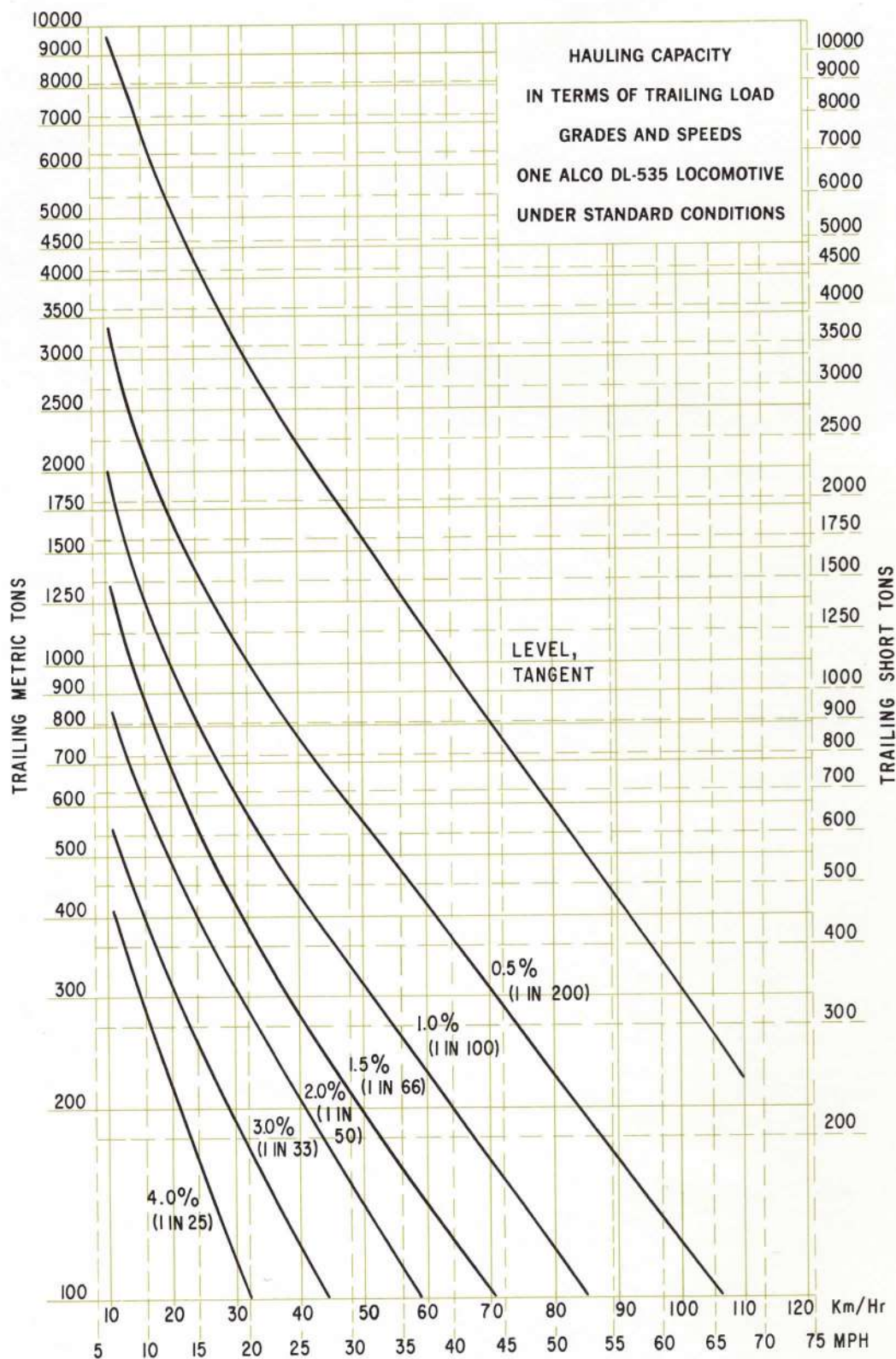


BRAKING EFFORT

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



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

- 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-534 General Characteristics

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")

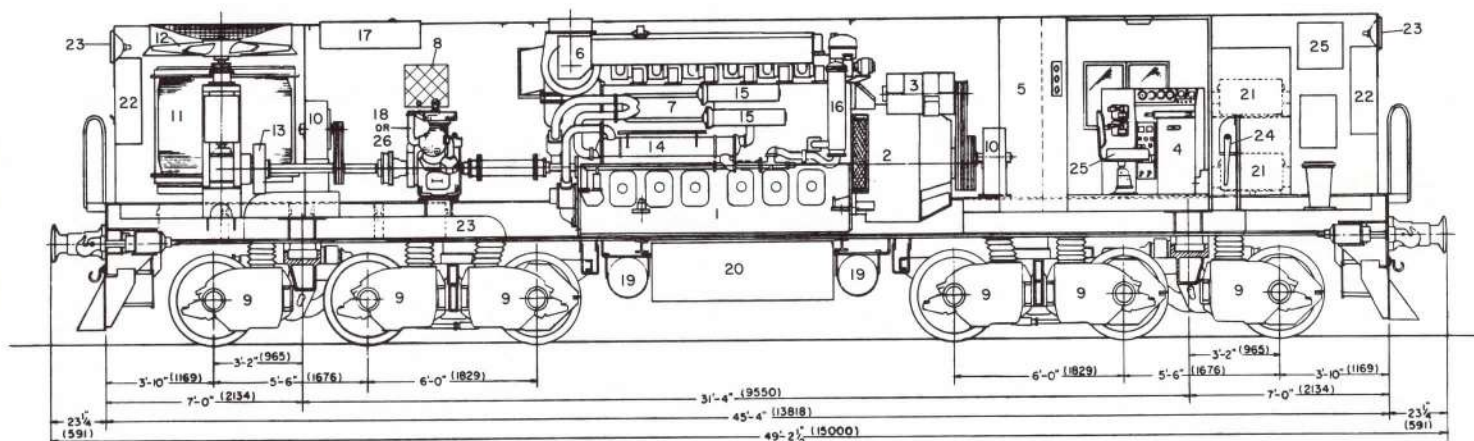
Basic Locomotive Weight: 70 764 Kg. (156,000 lbs.)

Axle Load: 11 794 Kg. (26,000 lbs.)

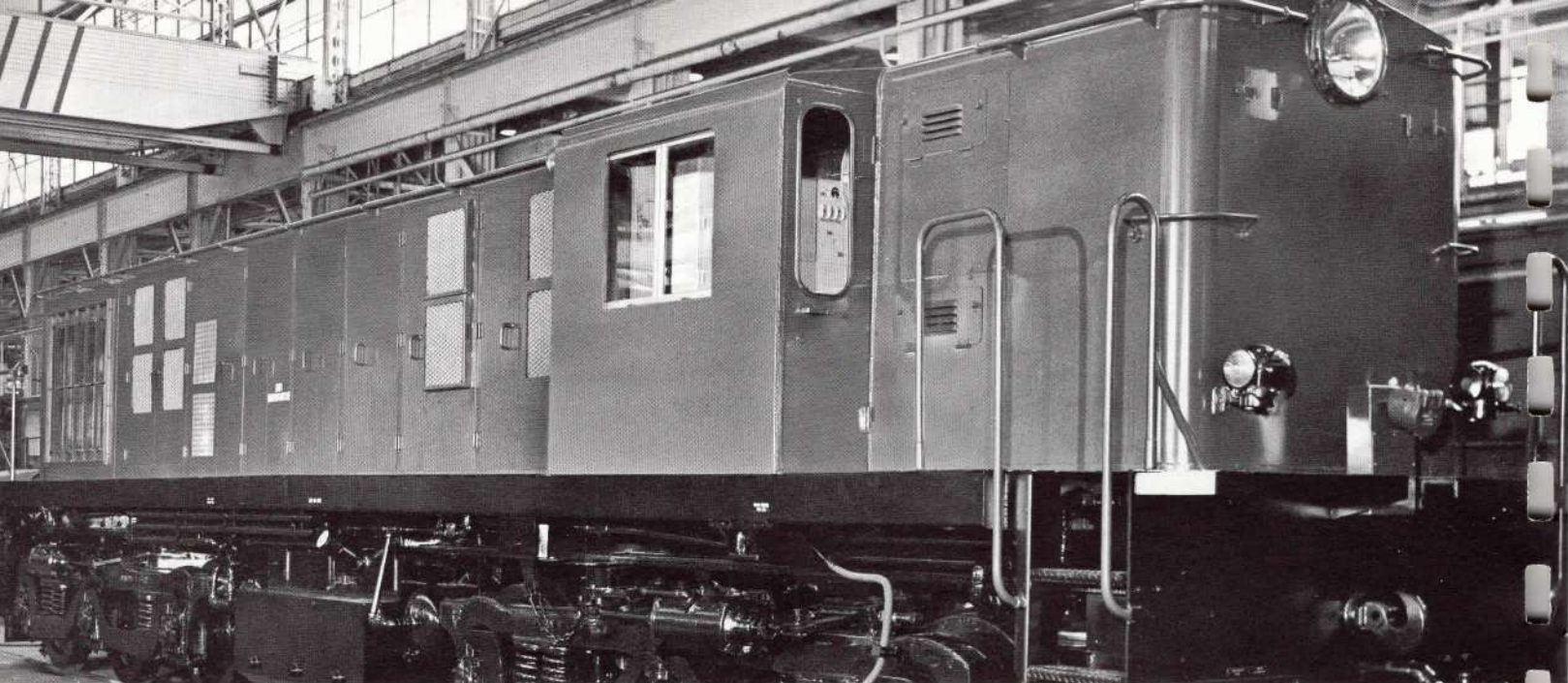
Wheel Diameter Basic: 914 mm (36")

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

Multi-Gauge Traction Motors for meter gauge upwards

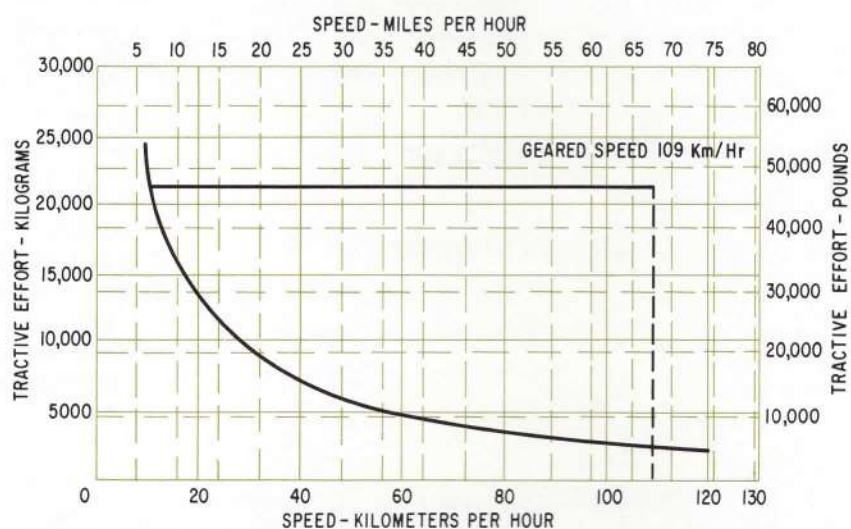


- | | | | |
|----------------------------------|----------------------------|------------------------------|------------------------------|
| 1. Engine | 8. Air Filters | 15. Lubricating Oil Filters | 21. Batteries |
| 2. Main Generator | 9. Traction Motor | 16. Lubricating Oil Strainer | 22. Sand Box |
| 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

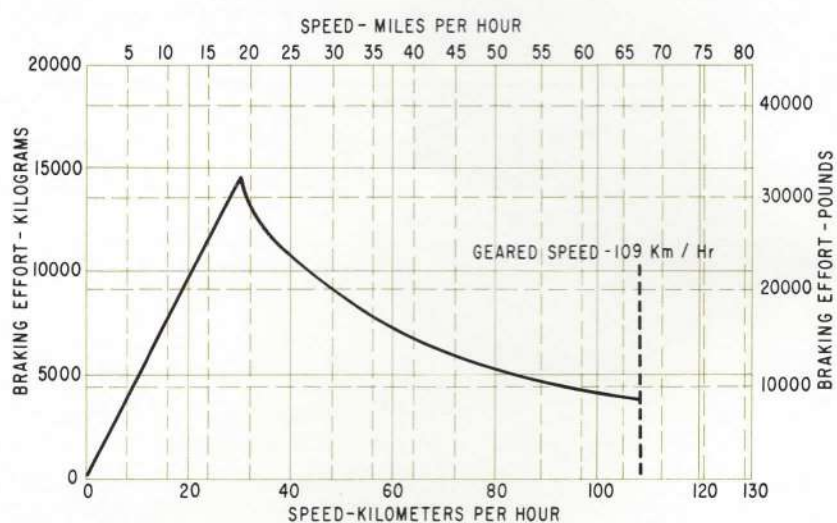
GEAR RATIO	TOP GEARED SPEED		MAXIMUM CONTINUOUS TRACTIVE EFFORT			
	Km/h.	MPH	Kg.	Lbs.	Km/h.	MPH
WITH 914 mm (36") wheels						
92:19	109	68	21 410	47,200	8,5	5.3
WITH 1016 mm (40") wheels						
92:19	122	76	19 280	42,500	9,6	6.0



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

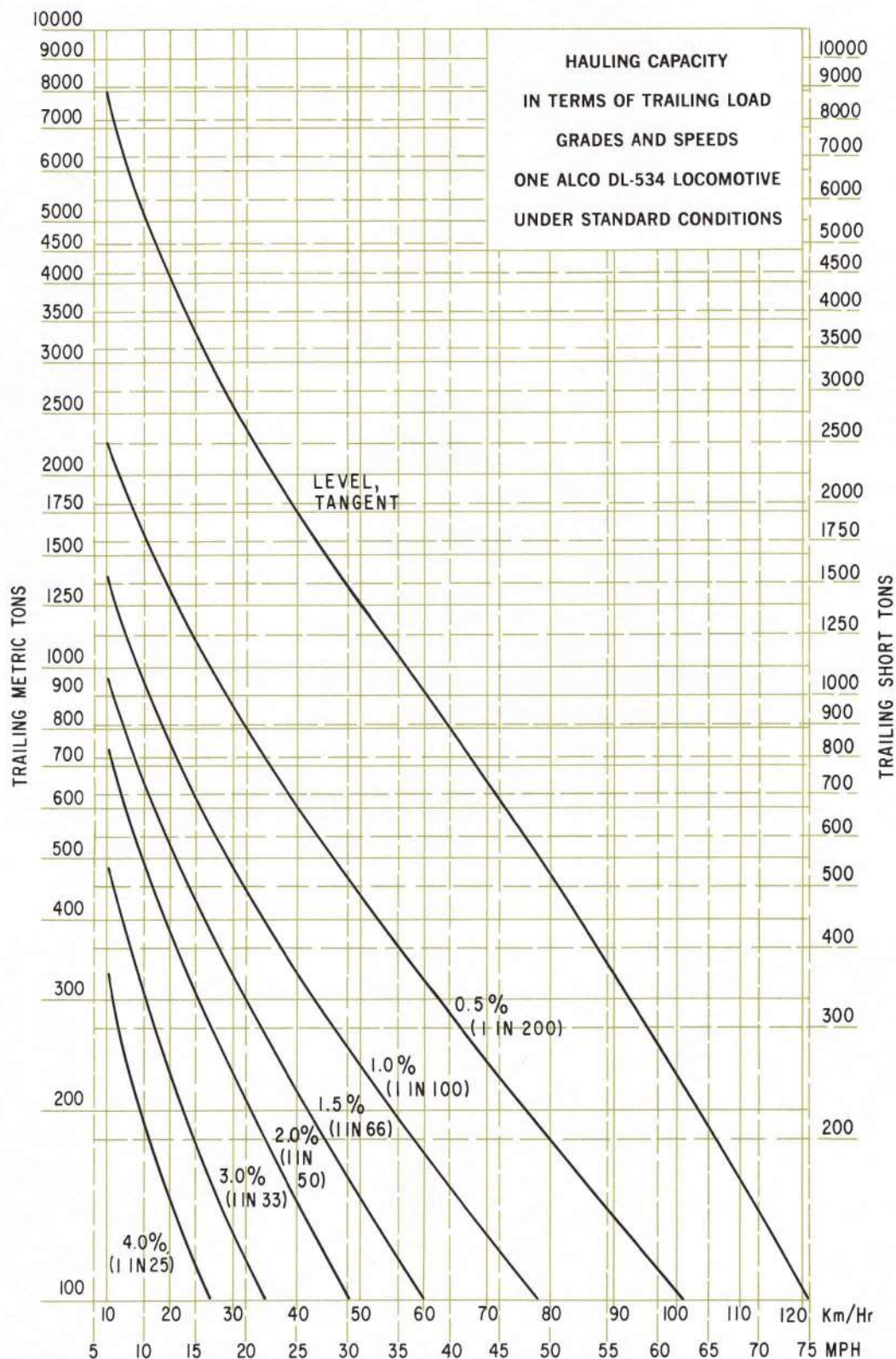
BRAKING EFFORT

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



ALCO PRODUCTS, INC., 530 FIFTH AVENUE, NEW YORK, N.Y., 10036

Cable Address: Locomotive, New York

ALCO

ALCO
1370/1215 CV

SERIES B-14 (1350/1200 HP)

**DIESEL-ELECTRIC
LOCOMOTIVE**

GENERAL SPECIFICATION DL-536

WITH 1215 CV NET INPUT TO THE GENERATOR

ALCO
1065/965 CV

SERIES B-11 (1050/950 HP)

**DIESEL-ELECTRIC
LOCOMOTIVE**

GENERAL SPECIFICATION DL-532

WITH 965 CV NET INPUT TO THE GENERATOR

**ALL PURPOSE FOUR MOTOR STANDARD EXPORT
DIESEL-ELECTRIC LOCOMOTIVES**



ALCO

1370/1215 CV

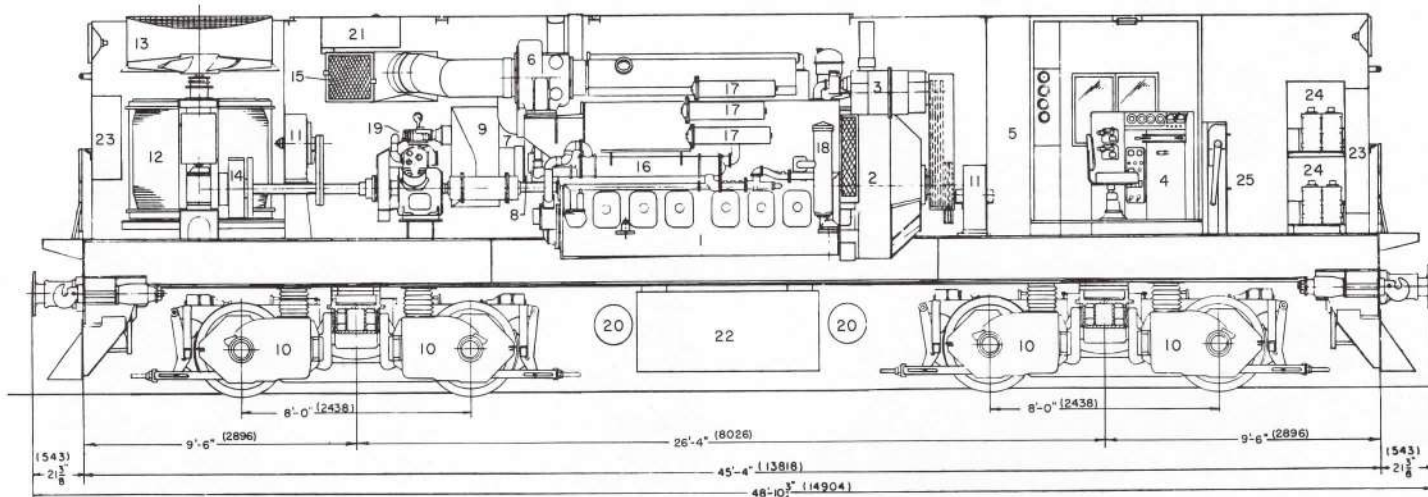
SERIES B-14 (1350/1200 HP)

DIESEL-ELECTRIC LOCOMOTIVE

DL-536 General Characteristics

- For mainline, branchline and transfer duties, where axle loads from 15,65 metric tons (34,500 lbs.) are permissible.
- Dynamic brake can be applied.
- Steam generator for train heating can be applied.

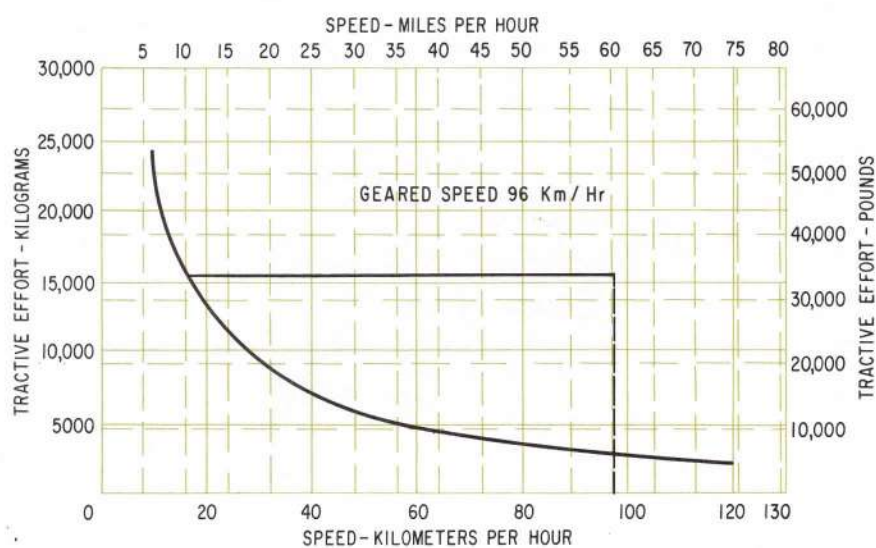
Diesel Engine: ALCO 6-251-D 1370/1215 CV (1350/1200 HP)
Wheel Arrangement: Bo-Bo
Principal Dimensions:
 Height (maximum): 3870 mm (12'8 $\frac{3}{4}$ "")
 Width (maximum): 2915 mm (9'6 $\frac{3}{4}$ "")
 Length (over frame): 13818 mm (45'4"")
Basic Locomotive Weight: 68 000 Kg. (150,000 lbs.)
Axle Load Basic: 17 000 Kg. (37,500 lbs.)
Wheel Diameter Basic: 914 mm (36")
Fuel Oil Capacity Basic: 2 270 l. (600 U.S. Gallons); (500 Imp. Gallons)
Multi-Gauge Traction Motors from meter gauge upwards



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

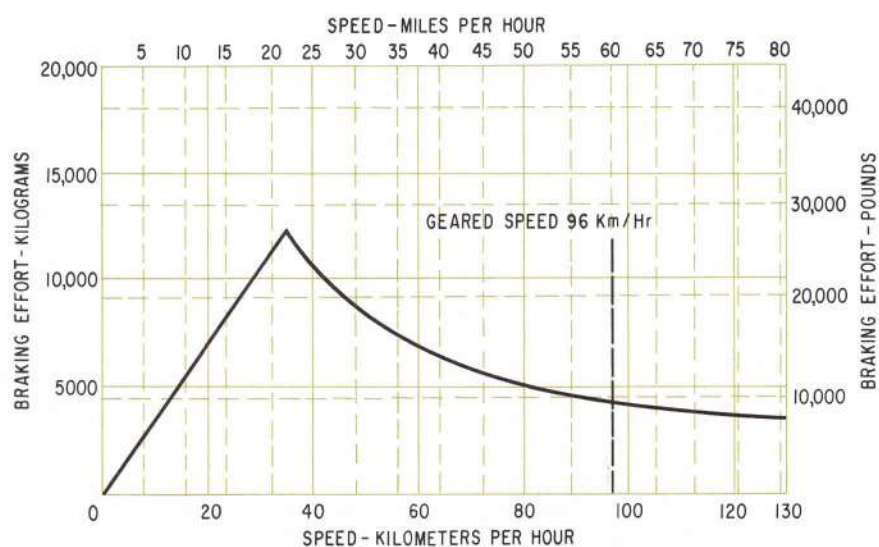


TRACTIVE EFFORT



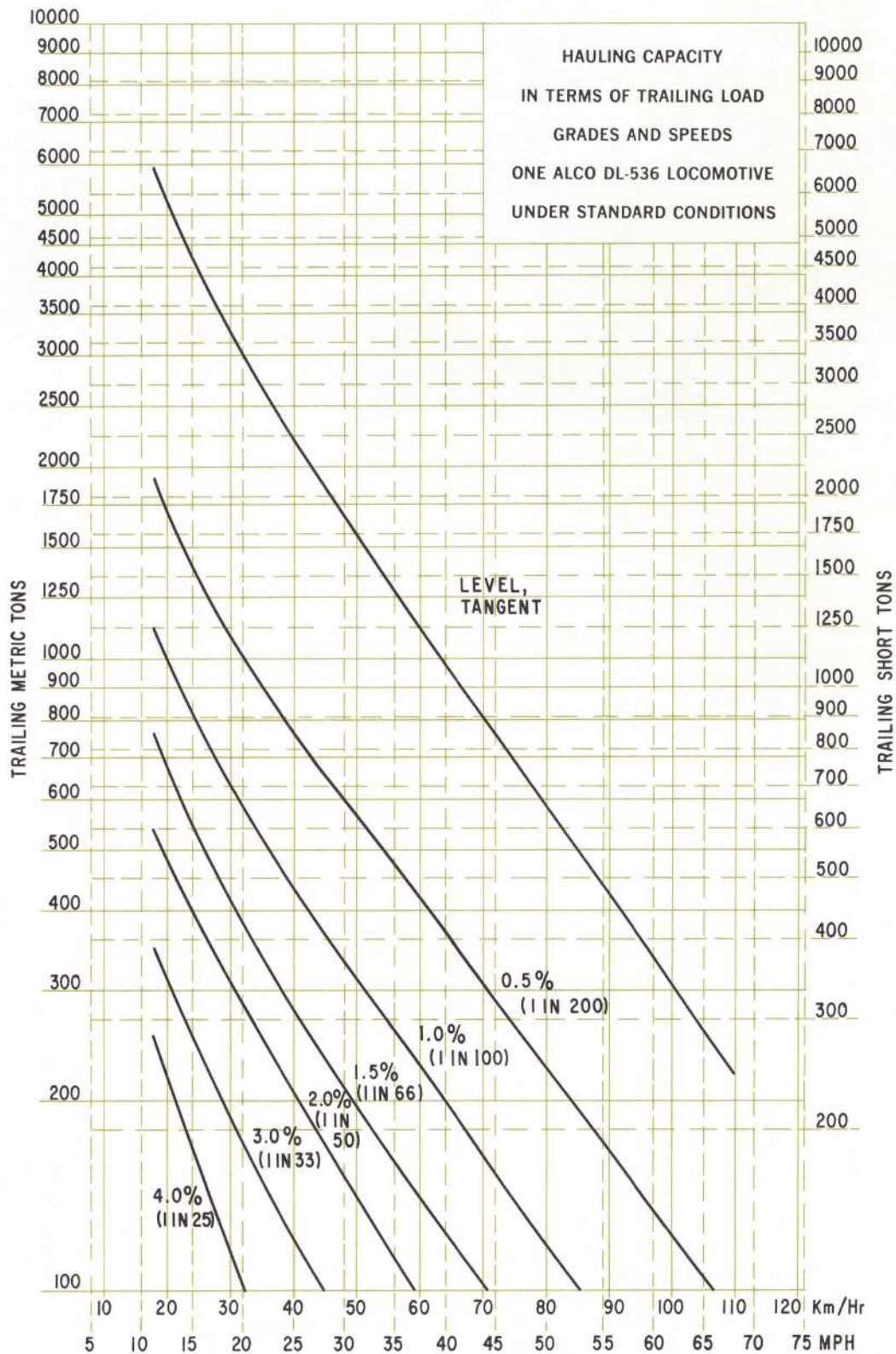
Tractive Effort Characteristics with 914 mm (36") Wheels and Basic 94:17 Gearing.

BRAKING EFFORT



Braking Effort Characteristics with 914 mm (36") Wheels and Basic 94:17 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

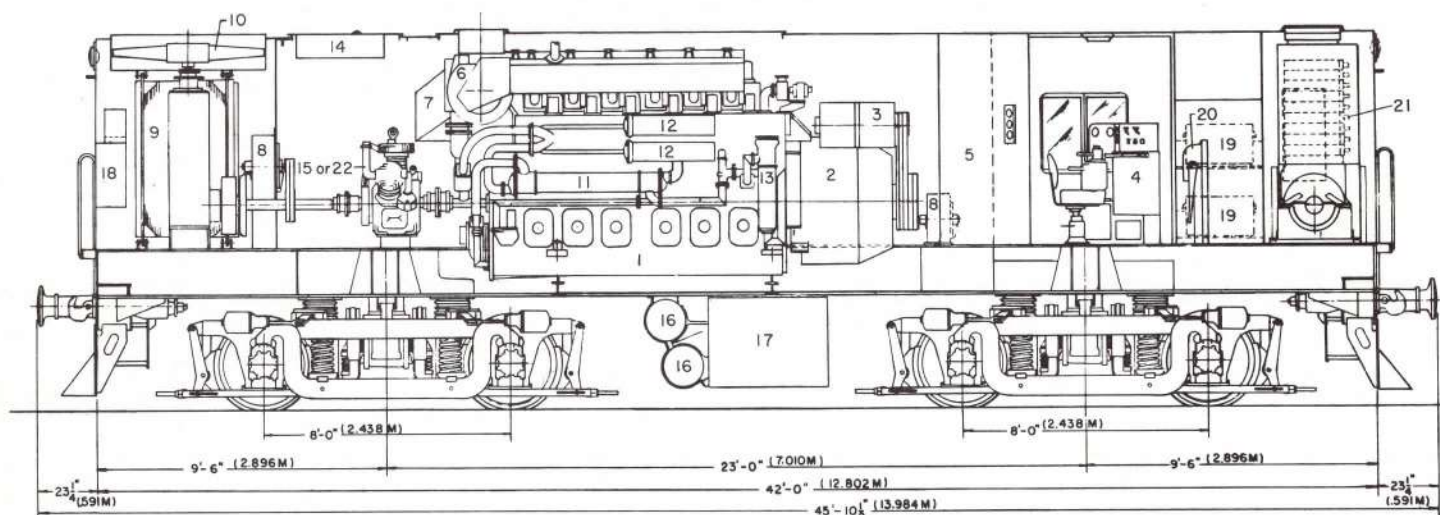
SERIES B-11 (1050/950 HP)

DIESEL-ELECTRIC LOCOMOTIVE

DL-532 General Characteristics

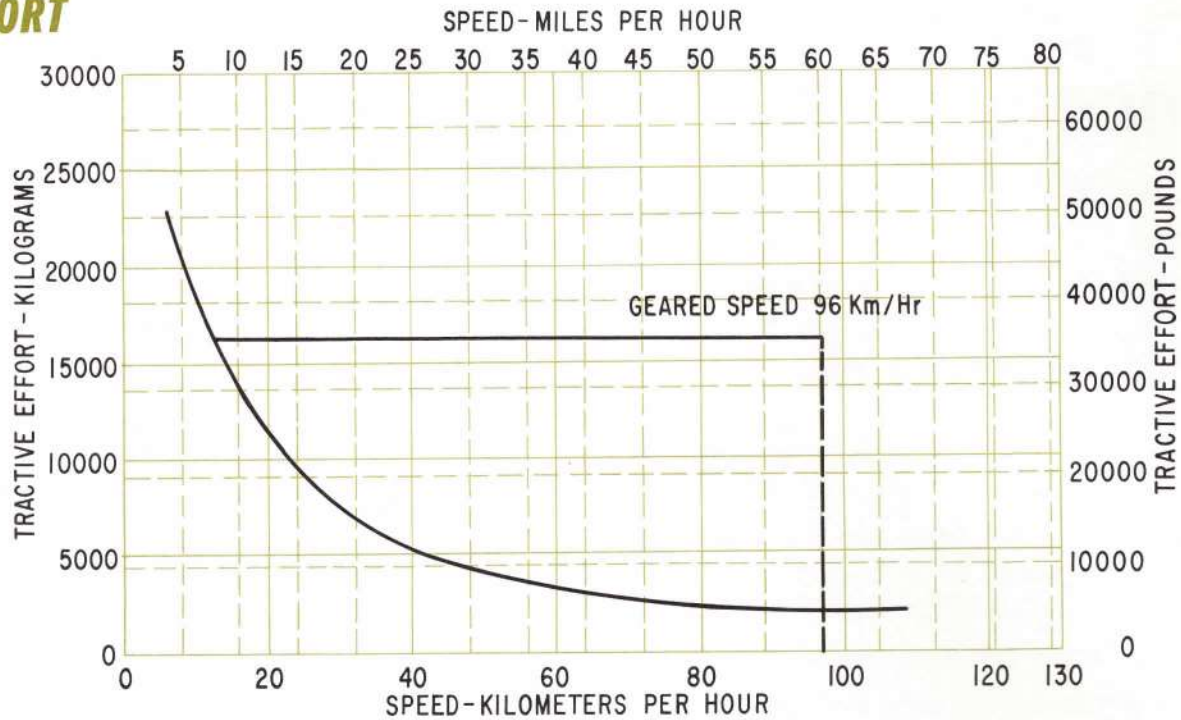
- For mainline, branchline and transfer duties, where axle loads from 15,65 metric tons (34,500 lbs.) are permissible.
- Dynamic brake can be applied.
- Steam generator for train heating can be applied.

Diesel Engine: ALCO 6-251-B 1065/965 CV (1050/950 HP)
Wheel Arrangement: Bo-Bo
Principal Dimensions:
 Height (maximum): 3658 mm (12'0")
 Width (maximum): 2743 mm (9'0")
 Length (over frame): 12802 mm (42'0")
Basic Locomotive Weight: 62 600 Kg. (138,000 lbs.)
Axle Load Basic: 15 650 Kg. (34,500 lbs.)
Wheel Diameter Basic: 914 mm (36")
Fuel Oil Capacity Basic: 2 270 l. (600 U.S. Gallons); (500 Imp. Gallons)
Multi-Gauge Traction Motors from meter gauge upwards.



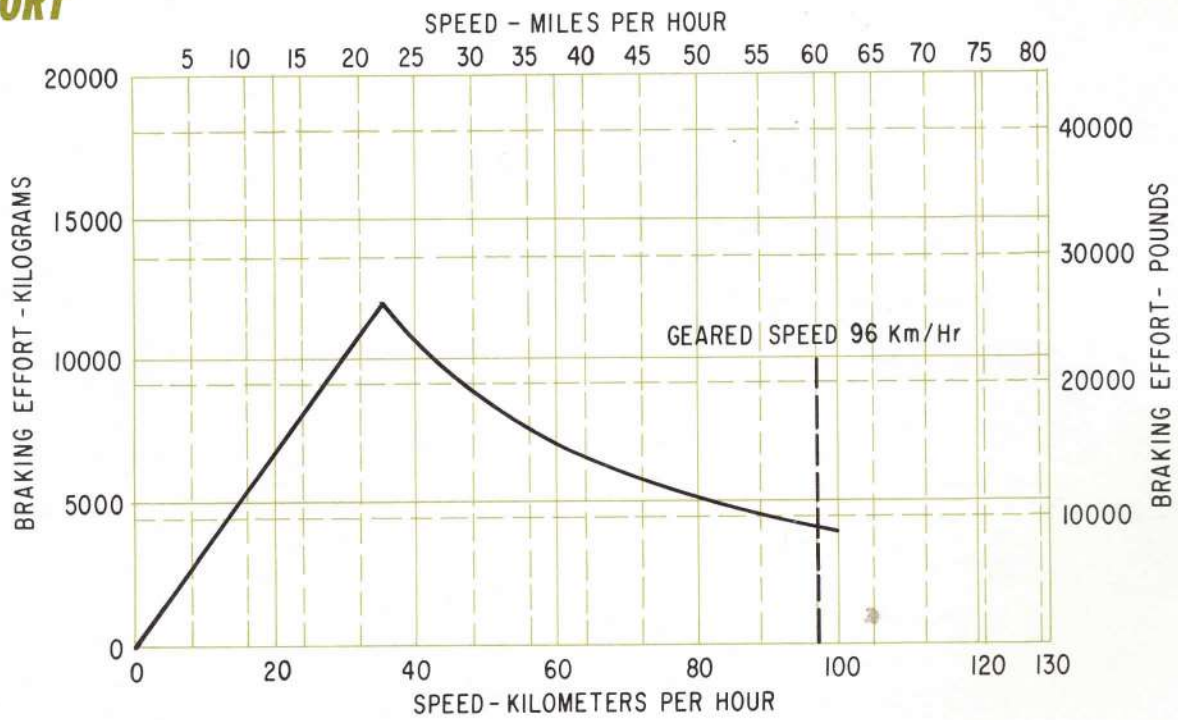
- | | | | |
|--------------------------------|------------------------------|------------------------------|--------------------------|
| 1. Engine | 7. Turbosupercharger Filters | 13. Lubricating Oil Strainer | 18. Sand Box |
| 2. Main Generator | 8. Traction Motor Blower | 14. Engine Water Tank | 19.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

TRACTIVE EFFORT



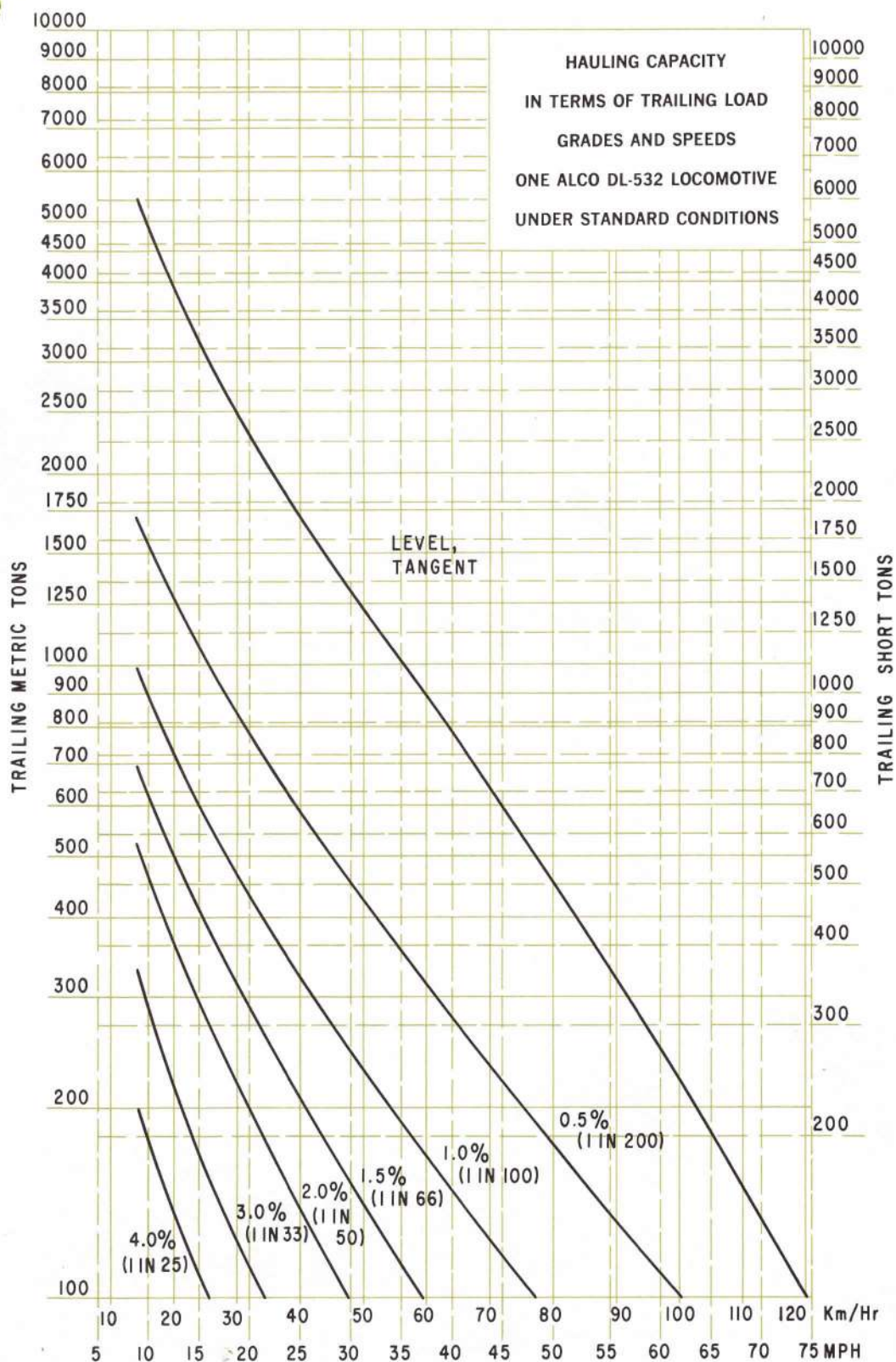
Tractive Effort Characteristics with 914 mm (36") Wheels and Basic 94:17 Gearing.

BRAKING EFFORT



Braking Effort Characteristics with 914 mm (36") Wheels and Basic 94:17 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



ALCO PRODUCTS, INC., 530 FIFTH AVENUE, NEW YORK, N.Y., 10036

Cable Address: Locomotive, New York

ALCO

**ALCO
2180/2030 CV**

SERIES C-22 (2150/2000 HP)

**DIESEL-ELECTRIC
LOCOMOTIVE**

GENERAL SPECIFICATION DL-543

WITH 2030 CV NET INPUT TO THE GENERATOR

**ALCO
1980/1825 CV**

SERIES C-20 (1950/1800 HP)

**DIESEL-ELECTRIC
LOCOMOTIVE**

GENERAL SPECIFICATION DL-541

WITH 1825 CV NET INPUT TO THE GENERATOR

**STANDARD EXPORT, ALL PURPOSE MAINLINE SIX AXLE
DIESEL-ELECTRIC LOCOMOTIVES**

ALCO DL-543



ALCO

2180/2030 CV

SERIES C-22 (2150/2000 HP)

DIESEL-ELECTRIC LOCOMOTIVE

- An extremely versatile all purpose unit. (Note 1).
- For all gauges from meter upwards. (Note 2), designed to be equipped with the high adhesion ALCO Trimount truck (basic); or the "World" type double suspension high speed truck; or a 1 Co-Co 1 wheel arrangement.
- Built from 16,0 metric tons axle load (basic); or from 13,35 metric tons on driving axles (1 Co-Co 1).
- Dynamic brake and train heating steam generator can be simultaneously applied.

NOTE 1: When 2180 CV are not needed, this unit can be built to ALCO specification DL-541 (1980/1825 CV), with simplified electrical equipment and other changes resulting in lower basic price. All gauges and wheel arrangements also available.

NOTE 2: 914 mm (36" gauge) for special applications (narrow gauge motors).

DL-543 General Characteristics

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

Wheel Arrangement: Co-Co; 1 Co-Co 1 optional

Principal Dimensions:

Height (maximum)—4010 mm (13'1 $\frac{1}{8}$ ")

Width (maximum)—2915 mm (9'6 $\frac{3}{4}$ ")

Length (over body)—16612 mm (54'6")

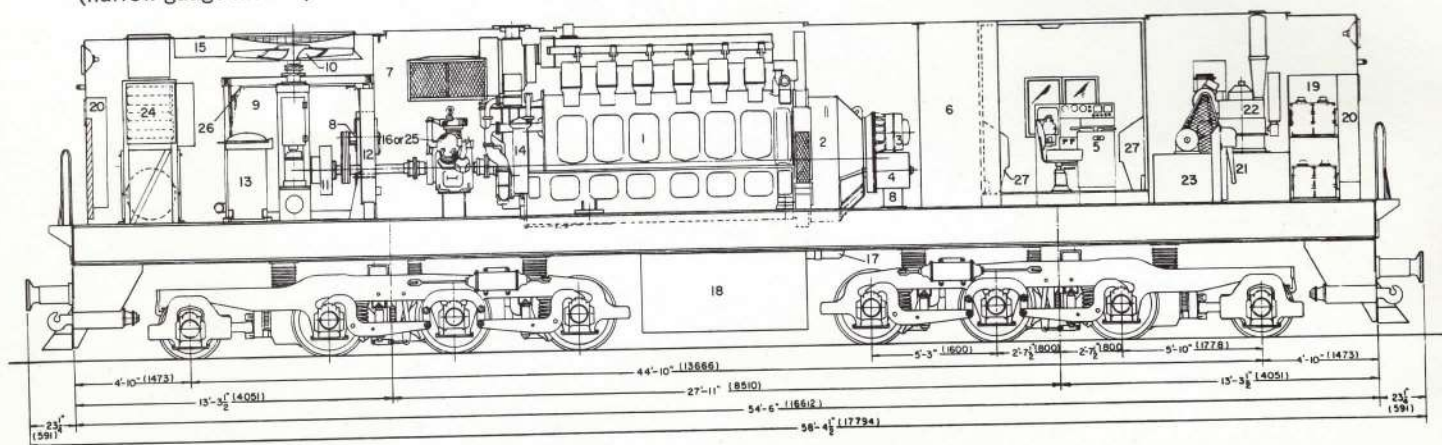
Basic Locomotive Weight: 96 000 Kg. (211,500 lbs.)

Axle Load: 16 000 Kg. (35,250 lbs.)

Wheel Diameter Basic: 1016 mm (40")

Fuel Oil Capacity Basic: 3 030 l. (800 U.S. Gallons); (666 Imp. Gallons)

Multi-Gauge Traction Motors from metric gauge upwards

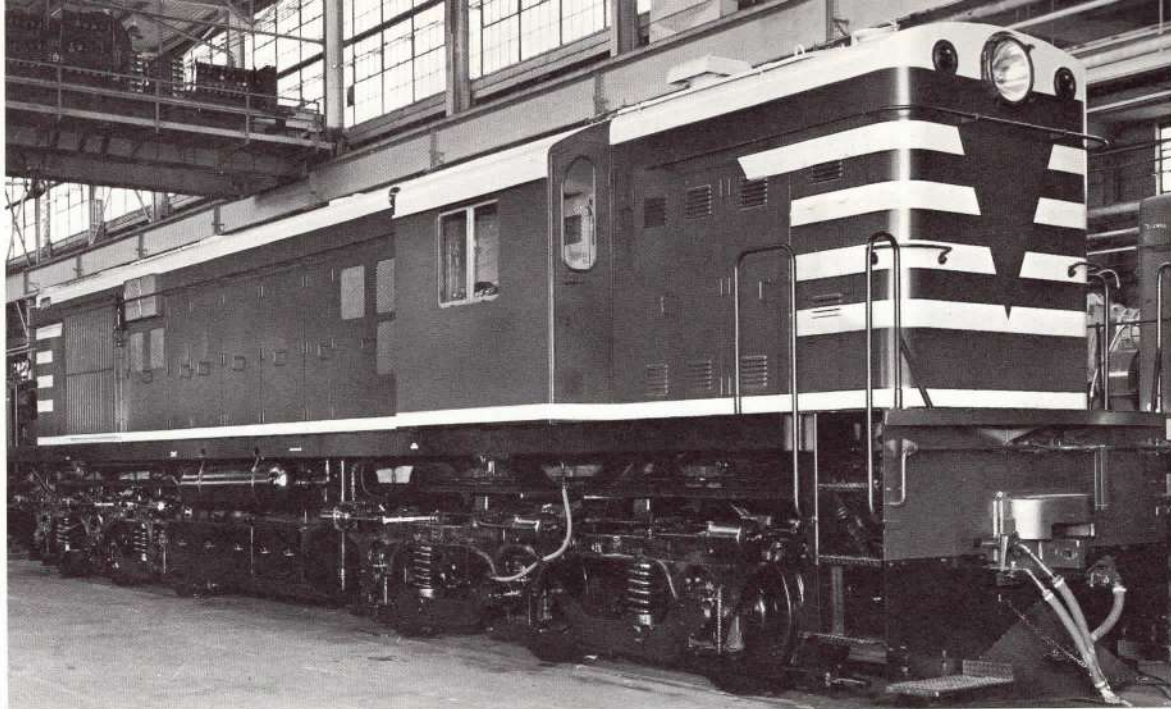


1. Engine
2. Main Generator
3. Exciter
4. Auxiliary Generator
5. Control Stand
6. Control Compartment
7. Air Filters

8. Traction Motor Blower
9. Radiator
10. Radiator Fan
11. Radiator Fan Clutch
12. Lubricating Oil Cooler
13. Lubricating Oil Filters
14. Lubricating Oil Strainer

15. Engine Water Tank
16. Air Compressor
17. Main Air Reservoir
18. Fuel Tank
19. Batteries
20. Sand Box
21. Hand Brake

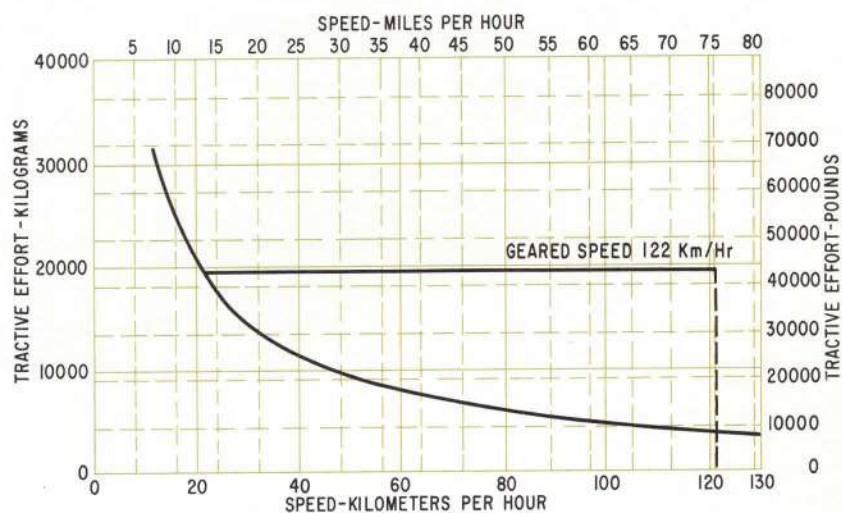
22. Steam Generator
23. Water Tank
24. Dynamic Brake
25. Compressor-Exhauster
26. Radiator Shutter
27. Cab Heater



ALCO DL-543 with double-suspension, swing-swivel trucks.

TRACTION EFFORT

GEAR RATIO	TOP GEARED SPEED		MAXIMUM CONTINUOUS TRACTION EFFORT			
	Km/h.	MPH	Kg.	Lbs.	Km/h	MPH
With 1016 mm (40") wheels						
92:19	122	76	19 280	42,500	22,5	14.0
94:17	80	50	22 000	48,500	19,5	12.1



Tractive Effort Characteristics with 1016 mm (40") Wheels and Basic 92:19 Gearing.

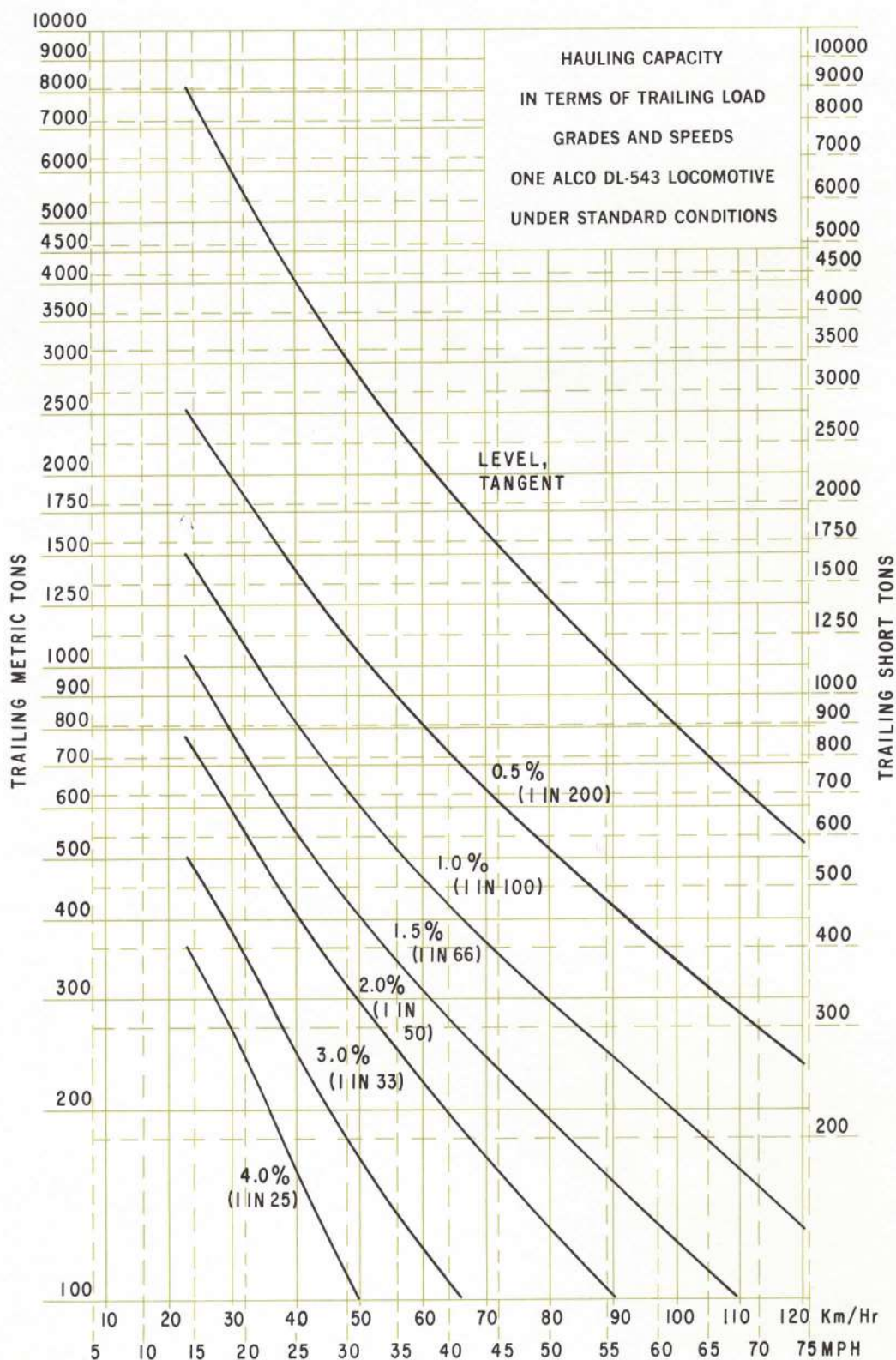
BRAKING EFFORT

GEAR RATIO	BRAKE PEAK SPEED		PEAK BRAKING EFFORT	
	Km/h	MPH	Kg.	Lbs.
With 1016 mm (40") wheels				
92:19	35,1	21.8	15 880	35,000
94:17	33,0	20.5	18 140	40,000



Braking Effort Characteristics with 1016 mm (40") Wheels and Basic 92:19 Gearing.

TONNAGE RATING



NOTE: The hauling capacity shown above is for 4 axle 40 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

1980/1825 CV

SERIES C-20 (1950/1800 HP)

DIESEL-ELECTRIC LOCOMOTIVE

- An extremely versatile all purpose unit, modified for lower CV needs from ALCO specification DL-543, with simplified electrical equipment and other changes resulting in lower basic price.
- For all gauges from meter upwards*. Designed to be equipped with the high adhesion ALCO Trimount truck (basic); or the "World" type double suspension high speed truck; or a 1 Co-Co 1 wheel arrangement.
- Dynamic brake and train heating steam generator can be simultaneously applied.

*914 mm (36" gauge) for special applications (narrow gauge motors).

DL-541 General Characteristics

Diesel Engine: ALCO 12-251-C 2180 CV (2150 BHP) set at 1980 CV (1950 HP) for this application.

Wheel Arrangement: Co-Co; 1 Co-Co 1 optional

Principal Dimensions:

Height (maximum)—4010 mm (13'1 $\frac{7}{8}$ "")

Width (maximum)—2915 mm (9'6 $\frac{3}{4}$ "")

Length (over body)—16612 mm (54'6"")

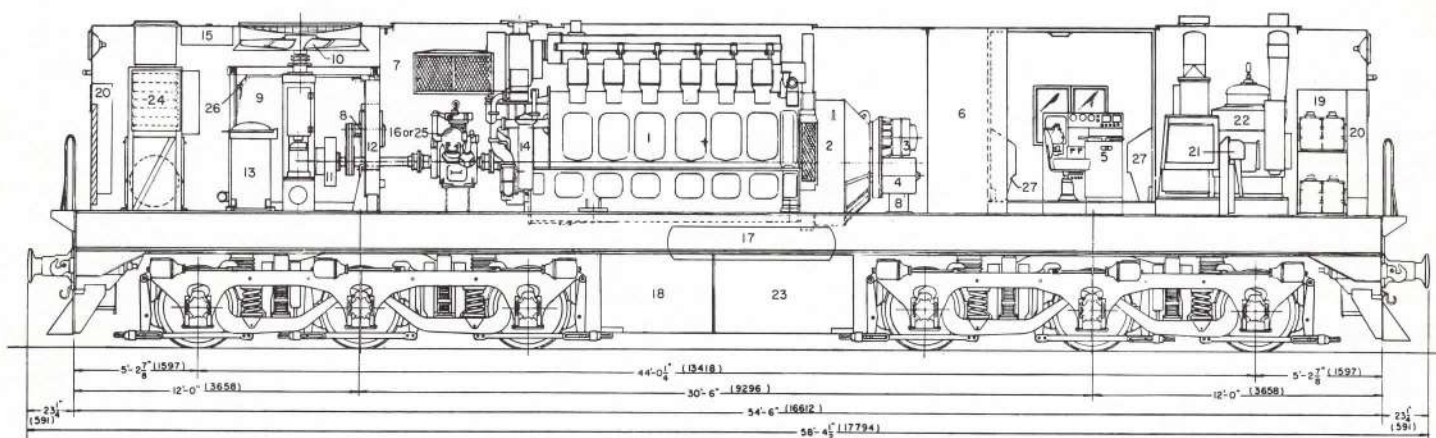
Basic Locomotive Weight: 96 000 Kg. (211,500 lbs.)

Axle Load: 16 000 Kg. (35,250 lbs.)

Wheel Diameter Basic: 1016 mm (40"")

Fuel Oil Capacity Basic: 3 030 l. (800 U.S. Gallons); (666 Imp. Gallons)

Multi-Gauge Traction Motors from metric gauge upwards

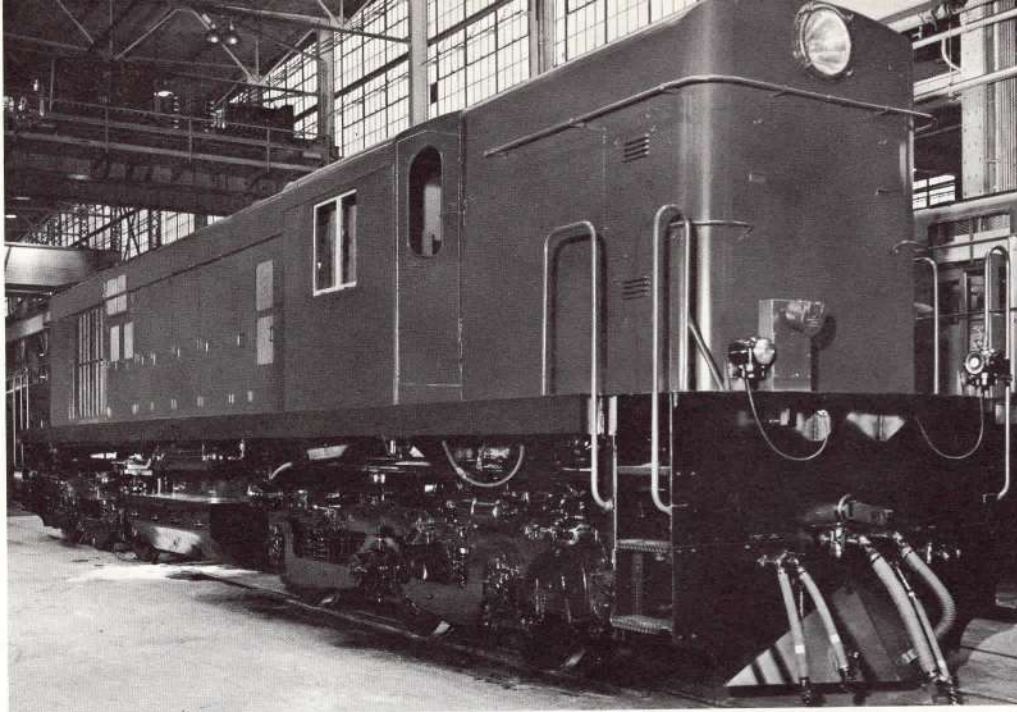


1. Engine
2. Main Generator
3. Exciter
4. Auxiliary Generator
5. Control Stand
6. Control Compartment
7. Air Filters

8. Traction Motor Blower
9. Radiator
10. Radiator Fan
11. Radiator Fan Clutch
12. Lubricating Oil Cooler
13. Lubricating Oil Filters
14. Lubricating Oil Strainer

15. Engine Water Tank
16. Air Compressor
17. Main Air Reservoir
18. Fuel Tank
19. Batteries
20. Sand Box
21. Hand Brake

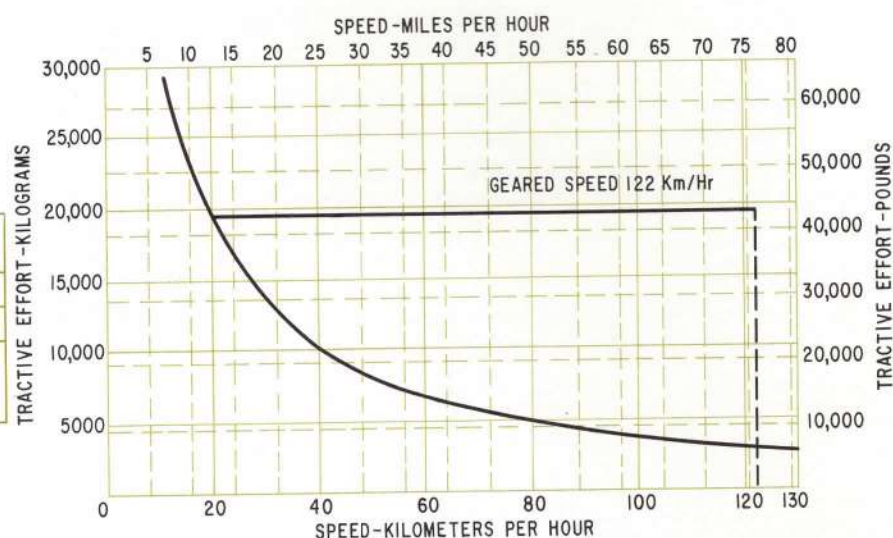
22. Steam Generator
23. Water Tank
24. Dynamic Brake
25. Compressor-Exhauster
26. Radiator Shutter
27. Cab Heater



ALCO DL-541

TRACTIVE EFFORT

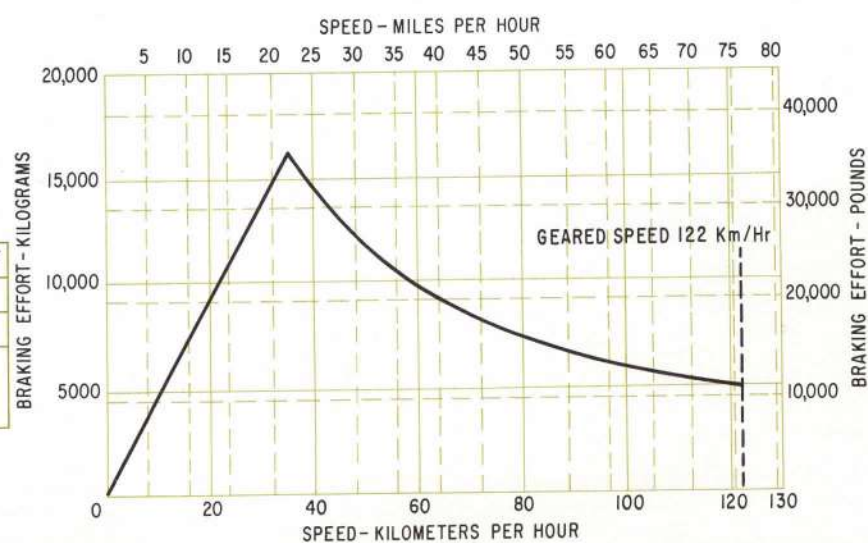
GEAR RATIO	TOP GEARED SPEED		MAXIMUM CONTINUOUS TRACTIVE EFFORT AT			
	Km/h	MPH	Kg.	Lbs.	Km/h	MPH
With 1016 mm (40") wheels						
92:19	122	76	19 280	42,500	20,1	12.5
94:17	80	50	22 000	48,500	17,9	11.1



Tractive Effort Characteristics with 1016 mm (40") wheels and Basic 92:19 Gearing.

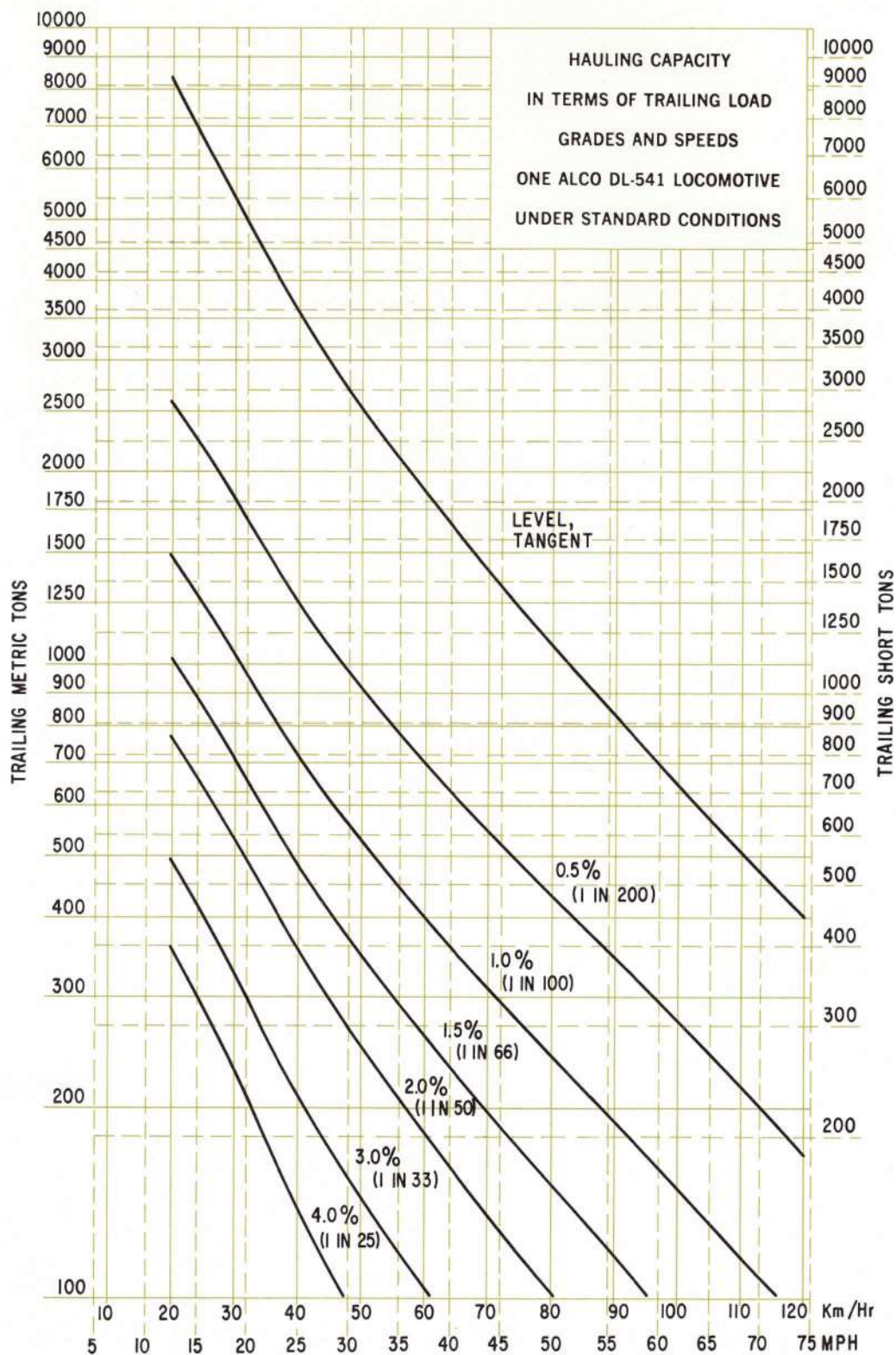
BRAKING EFFORT

GEAR RATIO	BRAKE PEAK SPEED		PEAK BRAKING EFFORT	
	Km/h	MPH	Kg.	Lbs.
With 1016 mm (40") wheels				
92:19	35,1	21.8	15 880	35,000
94:17	33,0	20.5	18 140	40,000



Braking Effort Characteristics with 1016 mm (40") wheels and Basic 92:19 Gearing.

TONNAGE RATING



NOTE: The hauling capacity shown above is for 4 axle 40 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



ALCO PRODUCTS, INC., 530 FIFTH AVENUE, NEW YORK, N.Y., 10036

Cable Address: Locomotive, New York

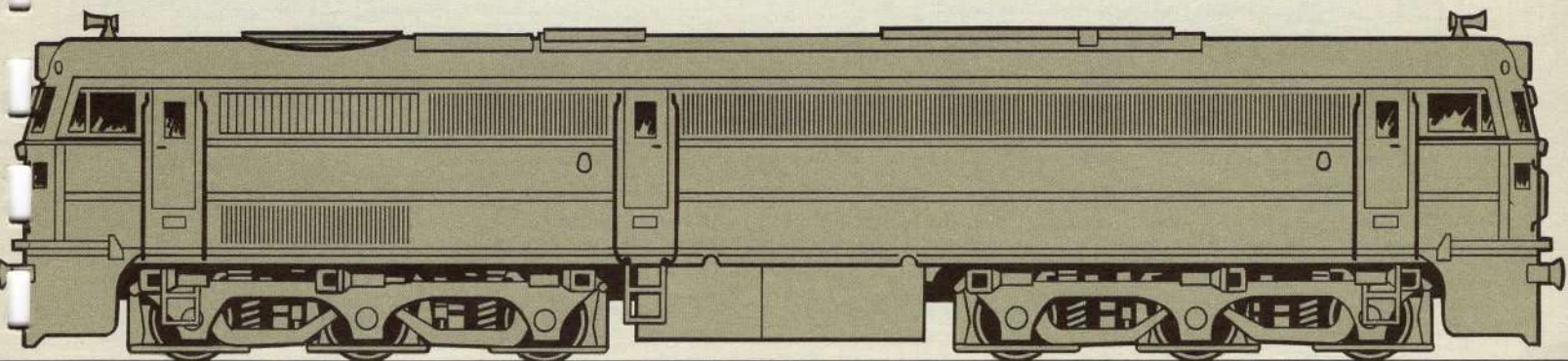
ALCO

ALCO
2180/2030 CV
SERIES C-22 (2150/2000 HP)
DIESEL-ELECTRIC
LOCOMOTIVE

GENERAL SPECIFICATION DL-500-S

**DOUBLE-ENDED STREAMLINED STANDARD EXPORT DIESEL-ELECTRIC LOCOMOTIVE
FOR HIGH SPEED MAINLINE SERVICE WITH 2030 CV NET INPUT TO THE GENERATOR**

ALCO DL-500-S



ALCO 2180/2030 CV SERIES C-22 (2150/2000 HP) DIESEL-ELECTRIC LOCOMOTIVE

WITH 2030 CV NET INPUT TO THE GENERATOR

- A locomotive suitable for high speed passenger or freight duties on lines where Berne International Clearance Diagrams are permissible.
- Axle loads in working order with full supplies from 17,0 metric tons (37,400 lbs.) including steam generator and dynamic braking. From 16,5 metric tons (36,000 lbs.) without steam generator and dynamic braking.
- Equipped with swing bolster, double suspension "World" trucks.

NOTE: Where lower horsepower and single-end are desired, this locomotive can be built to ALCO specification DL-500-C (1980/1830 CV) from 15,5 metric tons (34,200 lbs.) per axle.

DL-500-S General Characteristics

Diesel Engine: ALCO 12-251-C 2180/2030 CV (2150/1950 HP)

Wheel Arrangement: Co-Co

Principal Dimensions:

Height (maximum)—4216 mm (13'10")

Width (maximum)—2997 mm (9'10")

Length (over frame)—17396 mm (57'7/8")

Basic Locomotive Weight: 99 000 Kg. (215,000 lbs.)

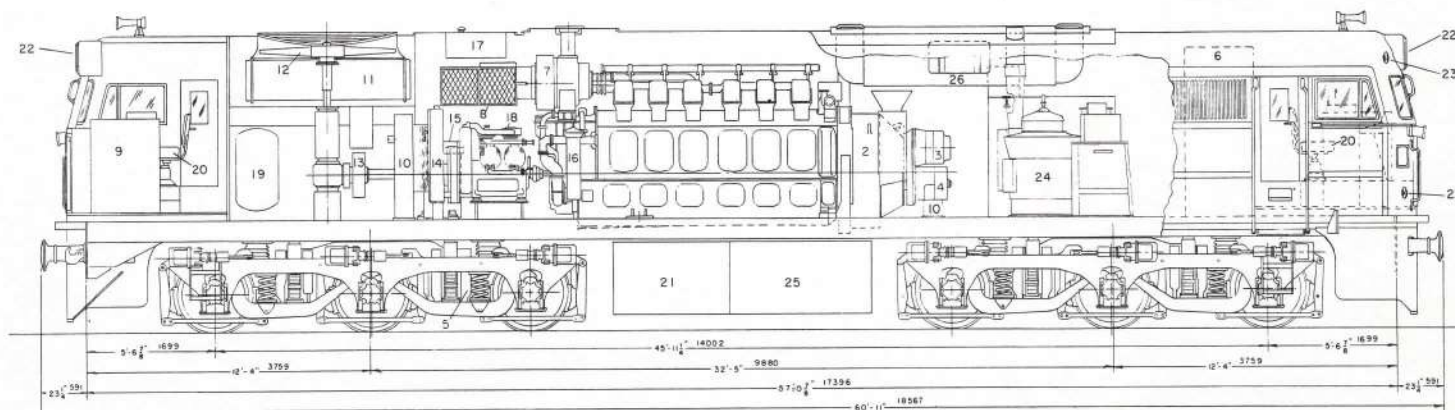
Axle Load: 16 500 Kg. (36,300 lbs.)

Wheel Diameter Basic: 1016 mm (40")

Fluid Supplies Capacity (Fuel and Water):

from 4 545 l. (1,200 U.S. Gallons); (1,000 Imp. Gallons)

Multi-Gauge Traction Motors from meter gauge upwards

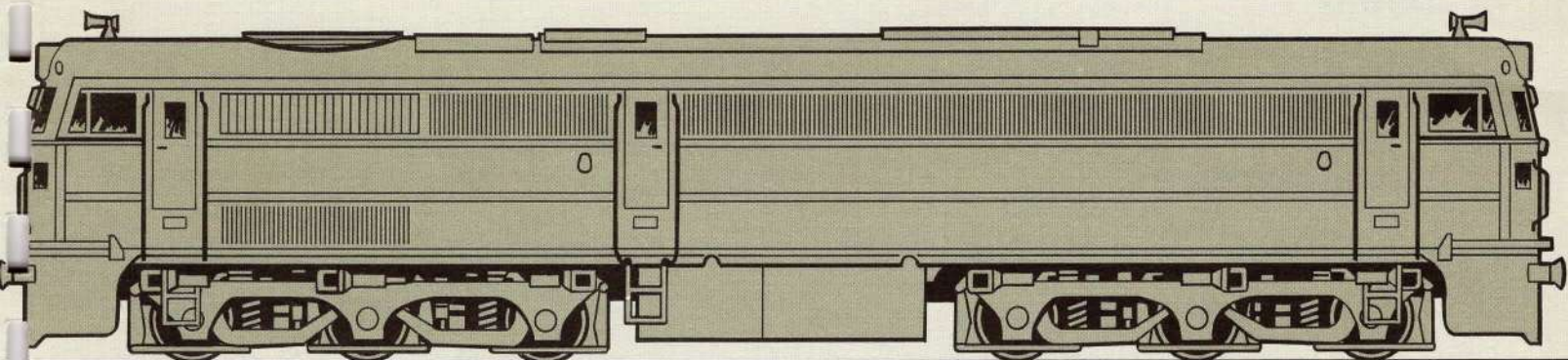


1. Engine
2. Main Generator
3. Exciter
4. Auxiliary Generator
5. Traction Motors
6. Control Compartment
7. Turbosupercharger

8. Turbosupercharger Filters and Silencers
9. Control Stand
10. Traction Motor Blower
11. Radiators
12. Radiator Fan
13. Radiator Fan Clutch

14. Lubricating Oil Cooler
15. Lubricating Oil Filters
16. Lubricating Oil Strainers
17. Engine Water Tank
18. Compressor-Exhauster
19. Main Air Reservoir
20. Cab Seat

21. Fuel Tank
22. Headlight
23. Classification Lights
24. Steam Generator
25. Water Tank
26. Dynamic Brake



TRACTION EFFORT

GEAR RATIO	TOP GEARED SPEED		MAXIMUM CONTINUOUS TRACTION EFFORT			
	Km/h.	MPH	Kg.	Lbs.	Km/h.	MPH
with 1016 mm (40") wheels						
92:19	122	76	19 280	42,500	22,5	14.0
91:20	130	81	18 140	40,000	24,1	15.0
94:17*	80	50	22 000	48,500	19,5	12.1
with 914 mm (36") wheels						
92:19	109	68	21 410	47,200	20,0	12.4
91:20	117	73	20 140	44,400	21,7	13.5
94:17*	96	60	24 490	54,000	16,4	10.2

*For special applications
Note: 93:18 data furnished on request.

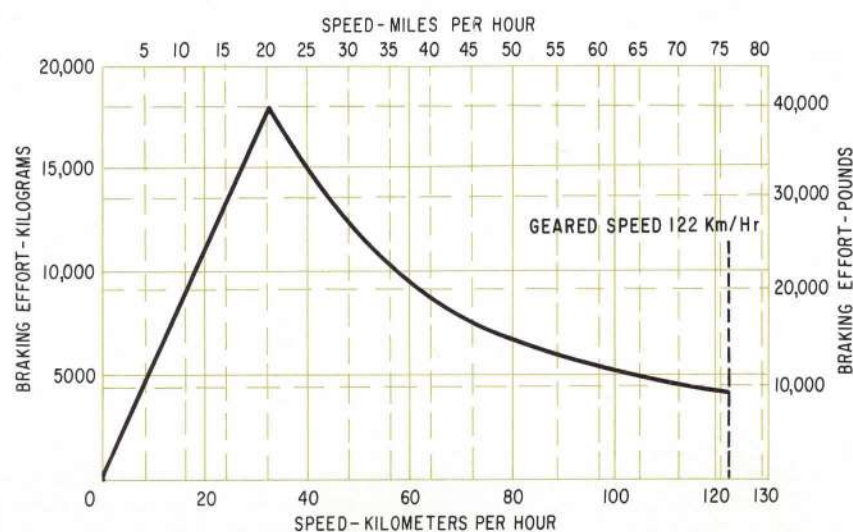
BRAKING EFFORT

GEAR RATIO	PEAK BRAKING EFFORT		SPEED	
	Kg.	Lbs.	Km/h.	MPH
with 1016 mm (40") wheels				
92:19	17 849	39,350	32,5	20.2
91:20	16 780	36,992	37,0	23.0

Note: 93:18 data furnished on request.
Note: 94:17 data furnished on request.
Note: 914 mm (36") wheel diameter data furnished on request.

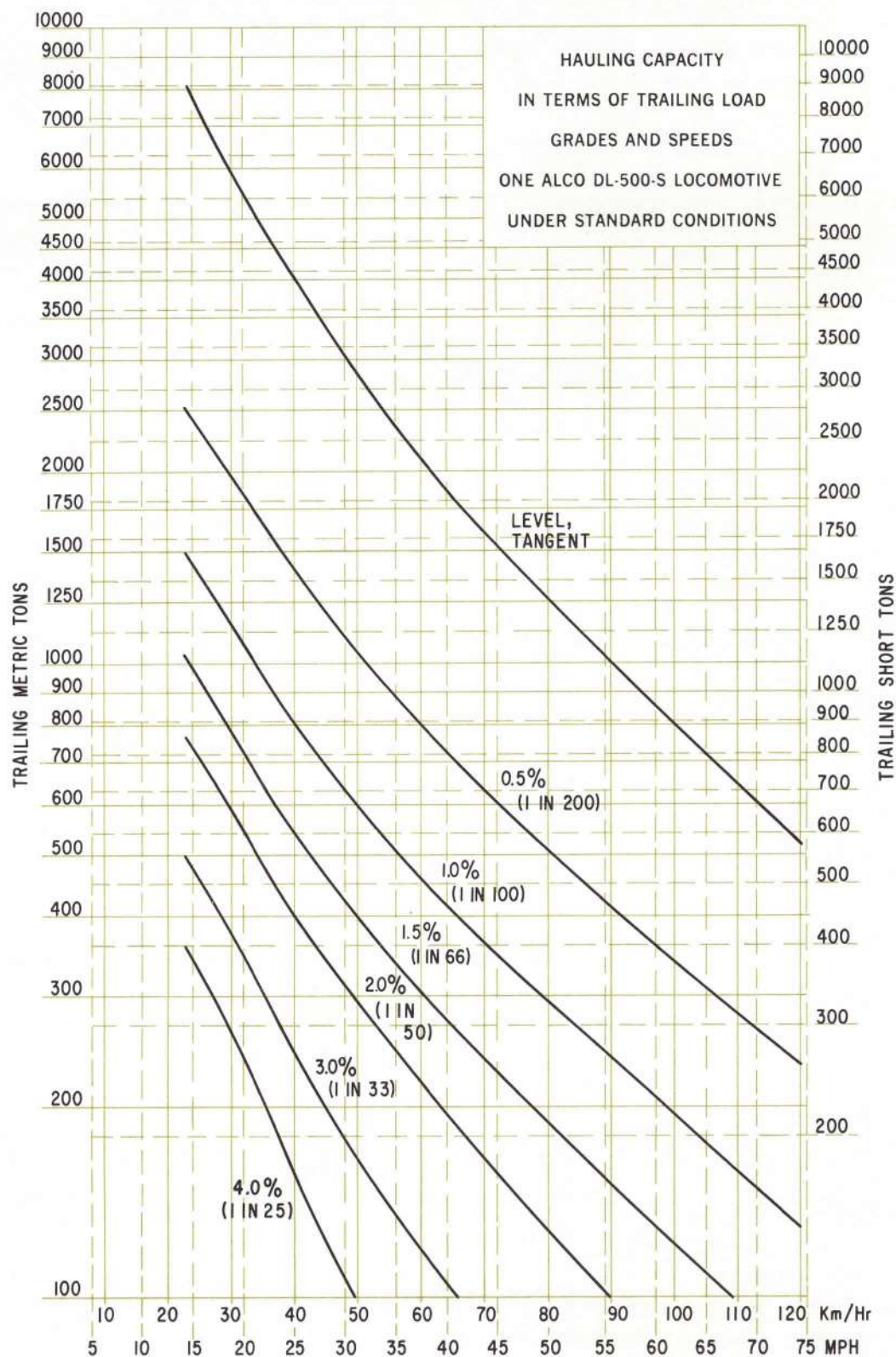


Tractive Effort Characteristics with 1016mm (40") Wheels and Basic 92:19 Gearing.



Braking Effort Characteristics with 1016 mm (40") Wheels and Basic 92:19 Gearing.

TONNAGE RATING



NOTE: The hauling capacity shown above is for 4 axle 40 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 1980/1830 CV

SERIES C 20 (1950/1800 HP)

DIESEL-ELECTRIC LOCOMOTIVE

WITH 1830 CV NET INPUT TO THE GENERATOR

- A locomotive suitable for high speed passenger or freight duties where Berne International Clearance Diagrams are permissible. Modified from ALCO specification DL-500-S for lower CV needs.
- Axle loads in working order with full supplies from 16,0 metric tons (35,300 lbs.) including steam generator and dynamic braking. From 15,5 metric tons (34,200 lbs.) without steam generator and dynamic braking.
- Equipped with swing bolster, double suspension "World" trucks.

DL-500-C General Characteristics

Diesel Engine: ALCO 12-251-C 2180 CV, set at 1980/1830 CV (1950/1800 HP)

Wheel Arrangement: Co-Co

Principal Dimensions:

Height (maximum)—4007 mm (13' 1 $\frac{3}{4}$ ")

Width (maximum)—2845 mm (9'4")

Length (over frame)—16706 mm (55' $\frac{7}{8}$ ")

Basic Locomotive Weight: 96 000 Kg. (211,500 lbs.)

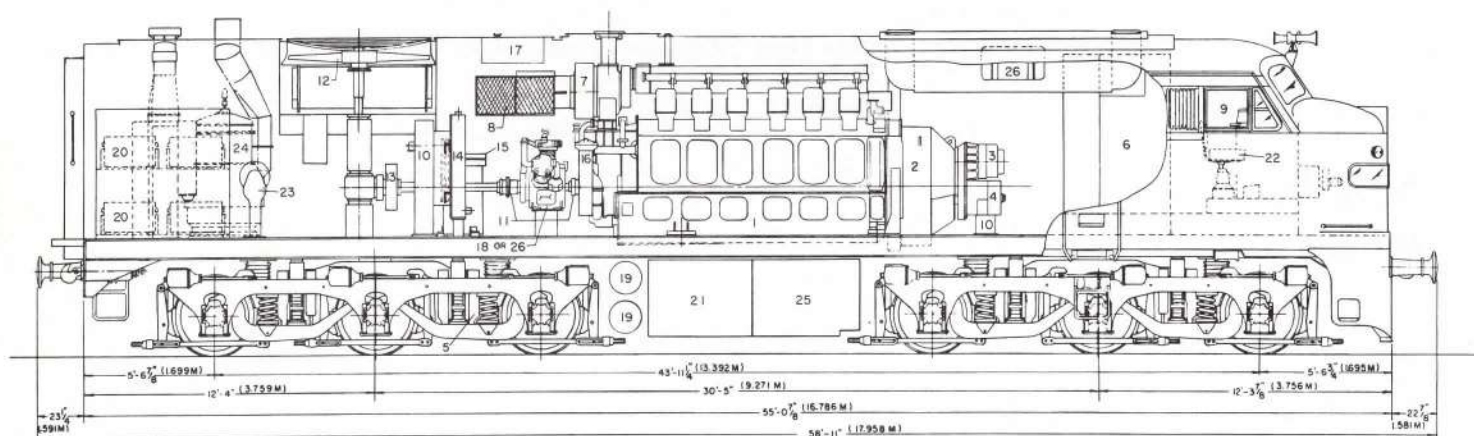
Axle Load: 16 000 Kg. (35,300 lbs.)

Wheel Diameter Basic: 1016 mm (40")

Fluid Supplies Capacity (Fuel and Water):

from 3 030 l. (800 U.S. Gallons); (670 Imp. Gallons)

Multi-Gauge Traction Motors from meter gauge upwards



1. Engine
2. Main Generator
3. Exciter
4. Auxiliary Generator
5. Traction Motors
6. Control Compartment
7. Turbosupercharger

8. Turbosupercharger Filters and Silencers
9. Control Stand
10. Traction Motor Blower
11. Flexible Couplings
12. Radiator Fan
13. Radiator Fan Clutch

14. Lubricating Oil Cooler
15. Lubricating Oil Filters
16. Lubricating Oil Strainers
17. Engine Water Tank
18. Air Compressor
19. Main Air Reservoir
20. Batteries

21. Fuel Tank
22. Cab Seat
23. Hand Brake
24. Steam Generator
25. Water Tank
26. Compressor-Exhauster



ALCO DC-500-C

TRACTION EFFORT

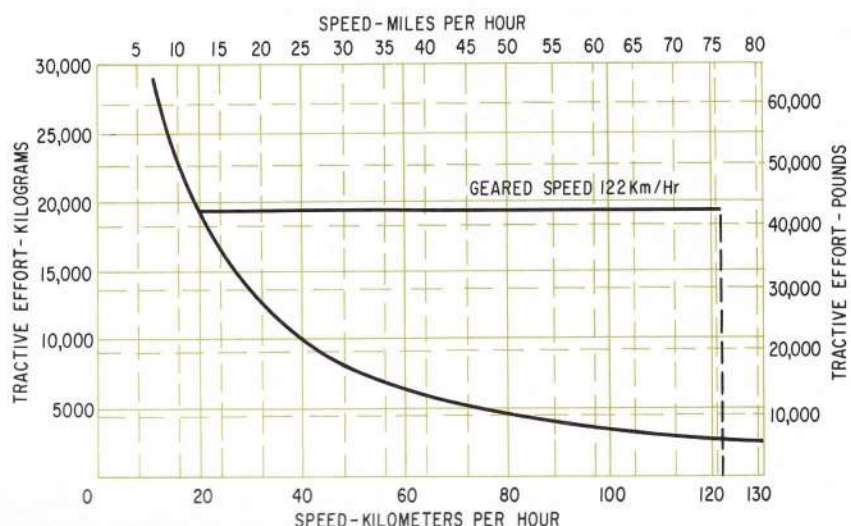
GEAR RATIO	TOP GEARED SPEED		MAXIMUM CONTINUOUS TRACTION EFFORT			
	Km/h.	MPH	Kg.	Lbs.	Km/h.	MPH
with 1016 mm (40") wheels						
92:19	122	76	19 280	42,500	20,1	12.5
91:20	130	81	18 140	40,000	21,7	13.5
94:17*	80	50	22 000	48,500	17,9	11.1
with 914 mm (36") wheels						
92:19	109	68	21 410	47,200	18,3	11.4
91:20	118	73	20 140	44,400	19,6	12.2
94:17*	96	60	24 490	54,000	15,8	9.8

*For special applications
Note: 93:18 data furnished on request.

BRACING EFFORT

GEAR RATIO	PEAK BRACING EFFORT		SPEED	
	Kg.	Lbs.	Km/h.	MPH
with 1016 mm (40") wheels				
92:19	15 880	35,000	35,1	21.8
91:20	14 923	32,900	36,4	22.6
94:17*	18 140	40,000	33,0	20.5

*For special applications
Note: 93:18 data furnished on request.
Note: 914 mm (36") wheel diameter data furnished on request.

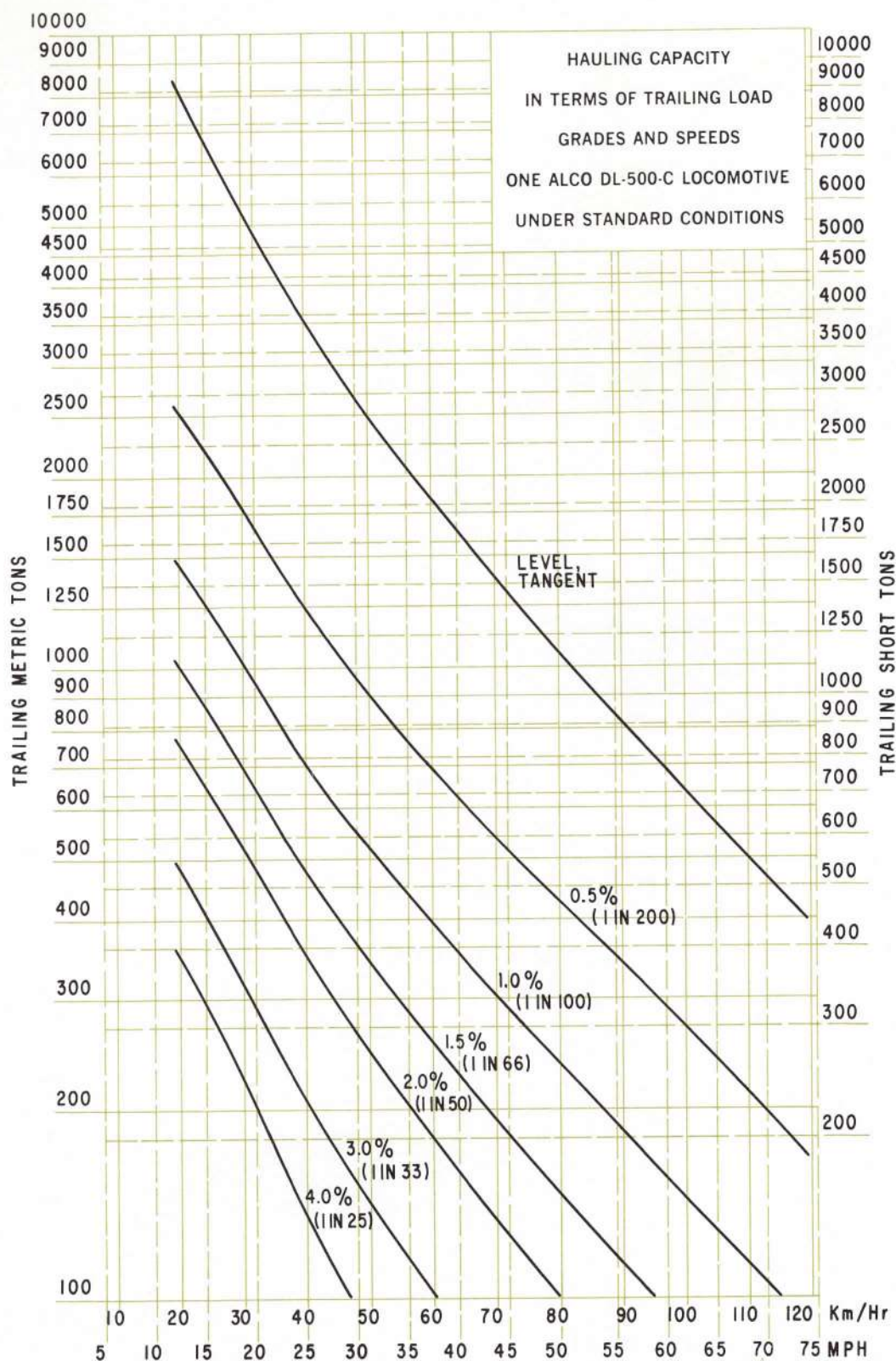


Traction Effort Characteristics with 1016mm (40") Wheels and Basic 92:19 Gearing.



Bracing Effort Characteristics with 1016mm (40") Wheels and Basic 92:19 Gearing.

TONNAGE RATING



NOTE: The hauling capacity shown above is for 4 axle 40 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



ALCO PRODUCTS, INC., 530 FIFTH AVENUE, NEW YORK, N.Y., 10036

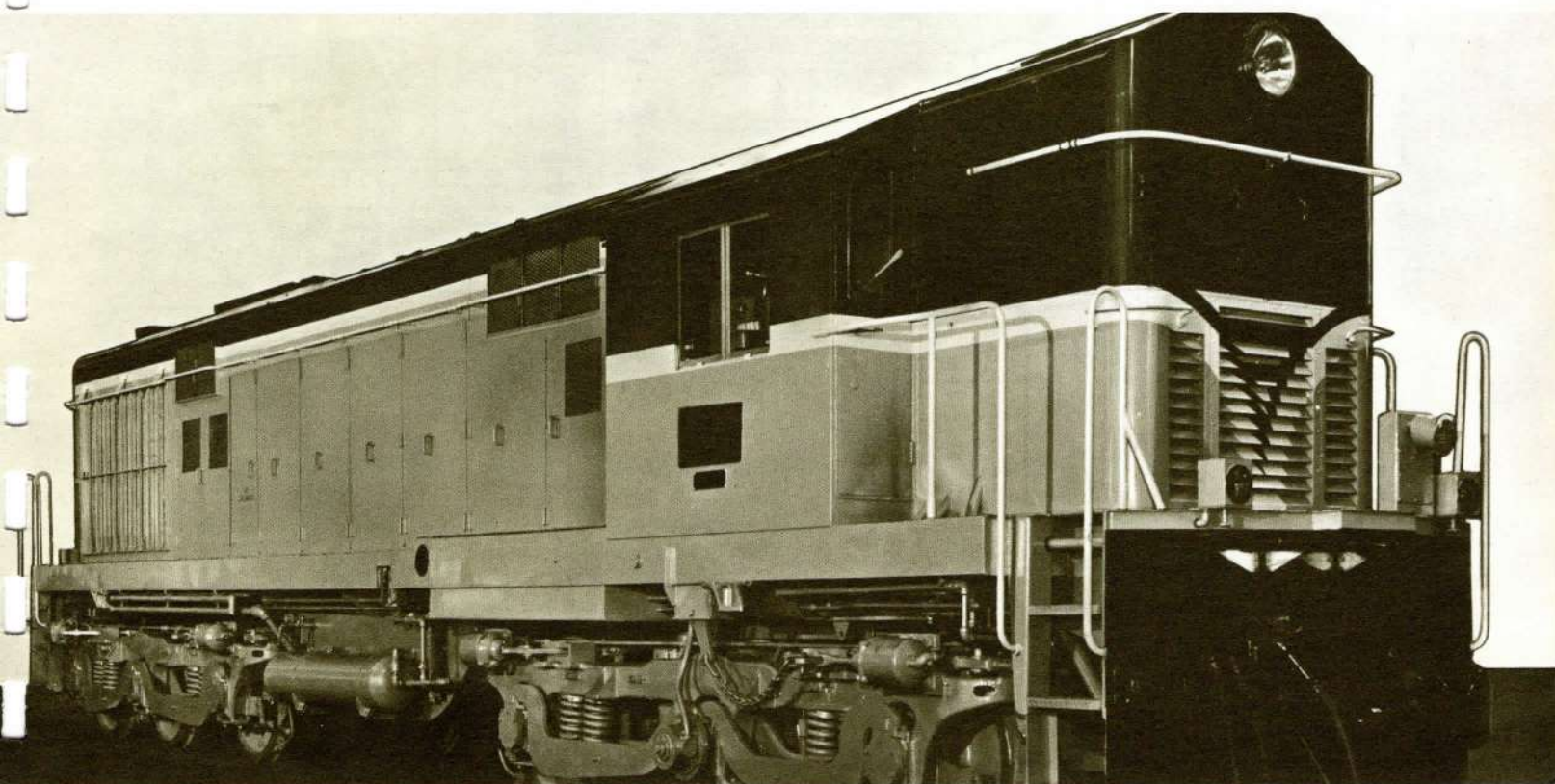
Cable Address: Locomotive, New York

ALCO

ALCO
2635/2430 CV
SERIES C-26 (2600/2400 HP)
DIESEL-ELECTRIC
LOCOMOTIVE

GENERAL SPECIFICATION DL-560

**STANDARD EXPORT, ALL PURPOSE HEAVY DUTY SIX AXLE DIESEL-ELECTRIC
LOCOMOTIVE WITH 2430 CV NET INPUT TO THE GENERATOR**



ALCO 2635/2430 CV

(2600/2400 HP)

DIESEL-ELECTRIC LOCOMOTIVE

- A medium axle load unit for passenger and freight service especially suited to handle heavy loads, while meeting a moderately restricted clearance diagram.
- Equipped with high adhesion Trimount Trucks.
- Available for all gauges from 1435 mm (4' 8½") upwards.
- Built for axle loads from 17 metric tons (37,660 lbs.).
- Dynamic brake can be applied.

DL-560 General Characteristics

Diesel Engine: ALCO 16-251-C 3090 CV, set at 2635/2430 CV (2600/2400 HP)

Wheel Arrangement: Co-Co

Principal Dimensions:

Height (maximum) — 4185 mm (13' 8¾")

Width (maximum) — 3010 mm (9' 10½")

Length (over body) — 15850 mm (52' 0")

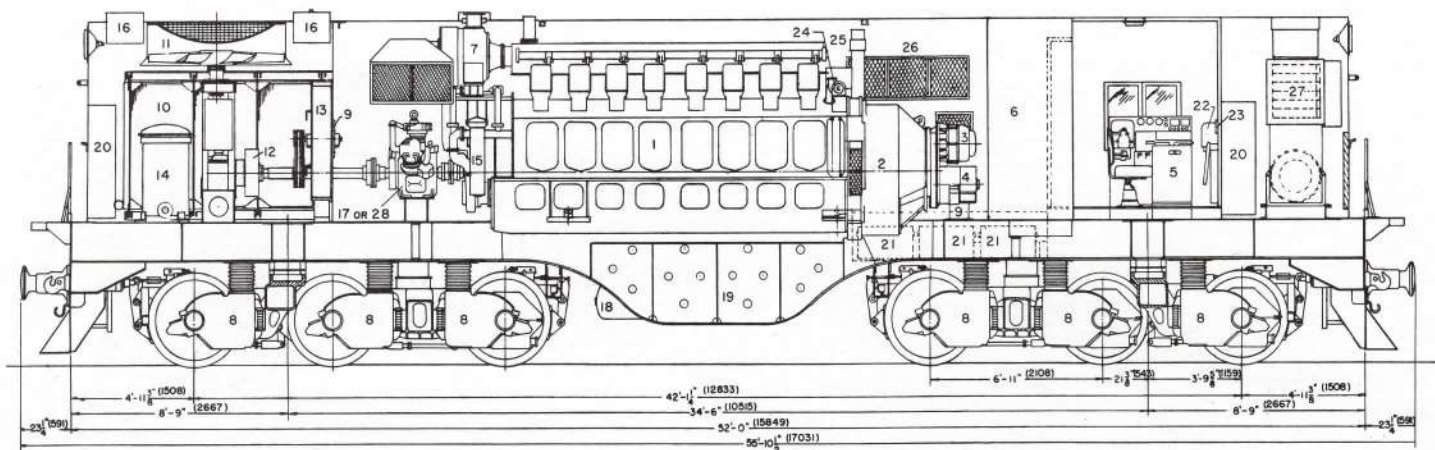
Basic Locomotive Weight: 102 400 Kg. (226,000 lbs.)

Axle Load: 17 060 Kg. (37,666 lbs.)

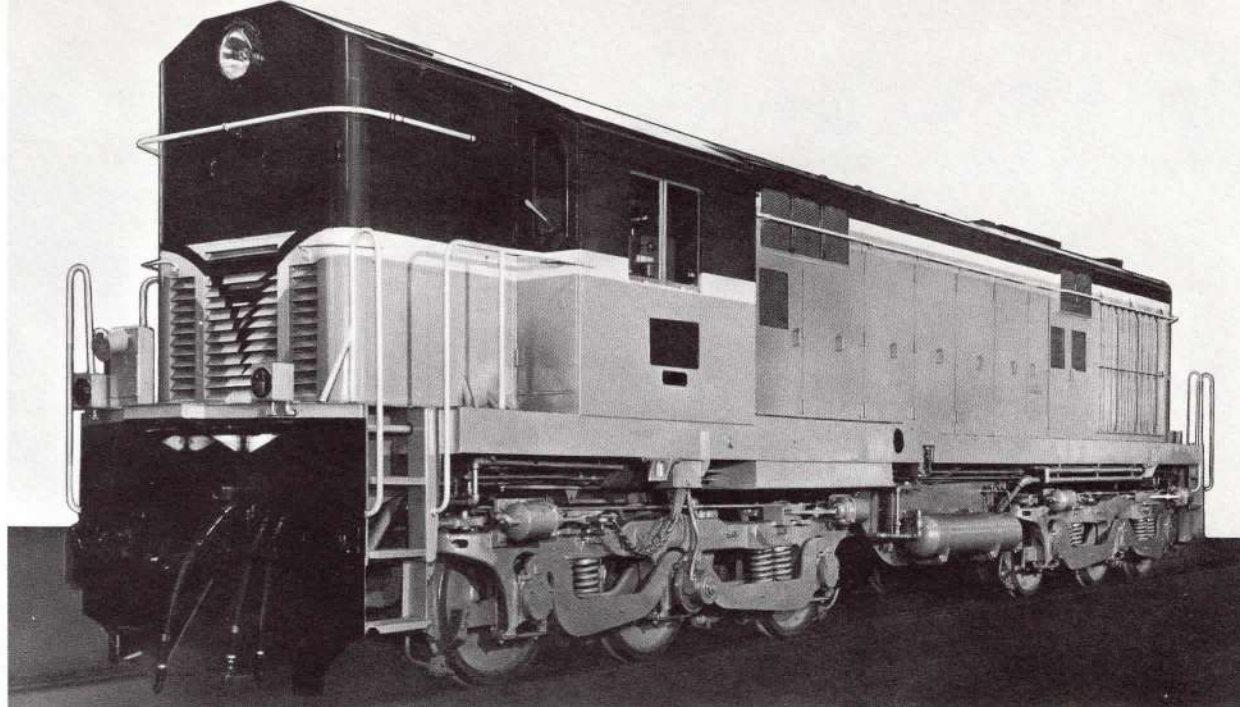
Wheel Diameter Basic: 1092 mm (43")

Fuel Oil Capacity Basic: 5 000 l. (1,325 U.S. Gallons); (1,100 Imp. Gallons)

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

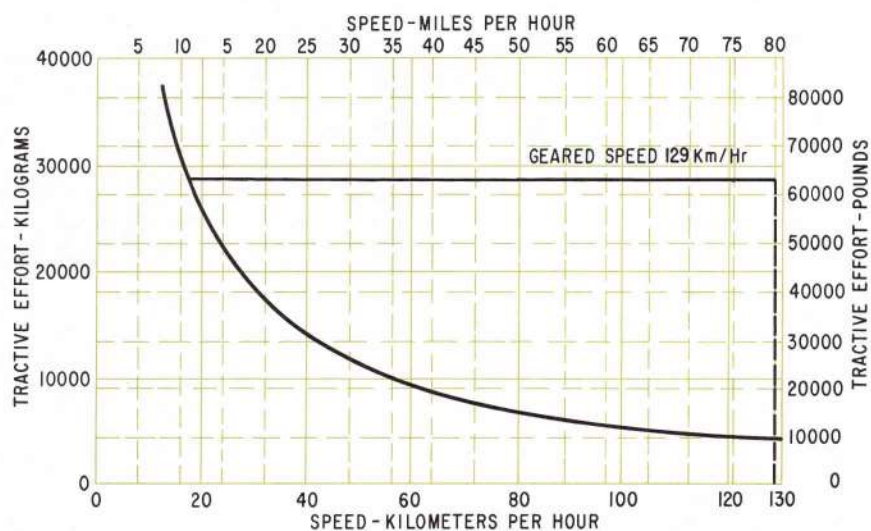


- | | | | |
|------------------------|-----------------------------|------------------------------|--------------------------------|
| 1. Engine | 8. Traction Motor | 15. Lubricating Oil Strainer | 22. Hand Brake |
| 2. Main Generator | 9. Traction Motor Blower | 16. Engine Water Tank | 23. Gauge Panel |
| 3. Exciter | 10. Radiator | 17. Compressor | 24. Crankcase Exhauster |
| 4. Auxiliary Generator | 11. Radiator Fan | 18. Main Air Reservoir | 25. Generator Exhaust Air Duct |
| 5. Control Stand | 12. Radiator Fan Clutch | 19. Fuel Tank | 26. Air Filters |
| 6. Control Compartment | 13. Lubricating Oil Cooler | 20. Sand Box | 27. Dynamic Brake |
| 7. Turbosupercharger | 14. Lubricating Oil Filters | 21. Batteries | 28. Compressor-Exhauster |



TRACTIVE EFFORT

GEAR RATIO	TOP GEARED SPEED		MAXIMUM CONTINUOUS TRACTIVE EFFORT			
	Km/h.	MPH	Kg.	Lbs.	Km/h.	MPH
WITH 1092 mm (43") wheels						
65:18	129	81	28 580	63,000	18,00	11.2



Tractive Effort Characteristics with 1092 mm (43") Wheels and Basic 65:18 Gearing.

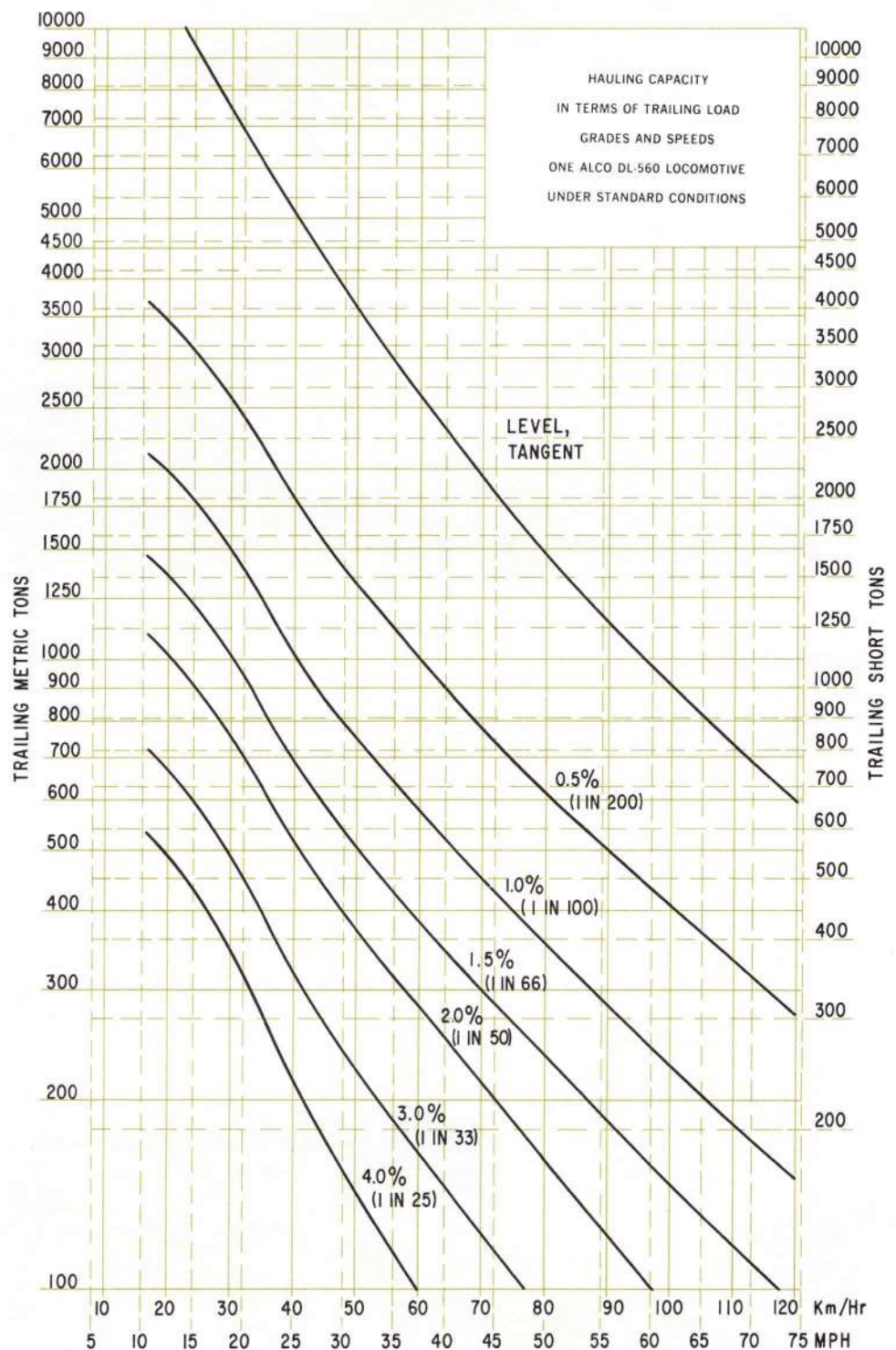
BRAKING EFFORT

GEAR RATIO	BRAKE PEAK SPEED		PEAK BRAKING EFFORT	
	Km/h.	MPH	Kg.	Lbs.
WITH 1092 mm (43") wheels				
65:18	26,6 to 39,4	16.5 to 24.5	19 050	42,000



Braking Effort Characteristics with 1092 mm (43") Wheels and Basic 65:18 Gearing.

TONNAGE RATING



NOTE:

The hauling capacity shown above is for 4 axle 40 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

ALCO

ALCO PRODUCTS, INC., 530 FIFTH AVENUE, NEW YORK, N. Y., 10036

Cable Address: Locomotive, New York

ALCO

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")

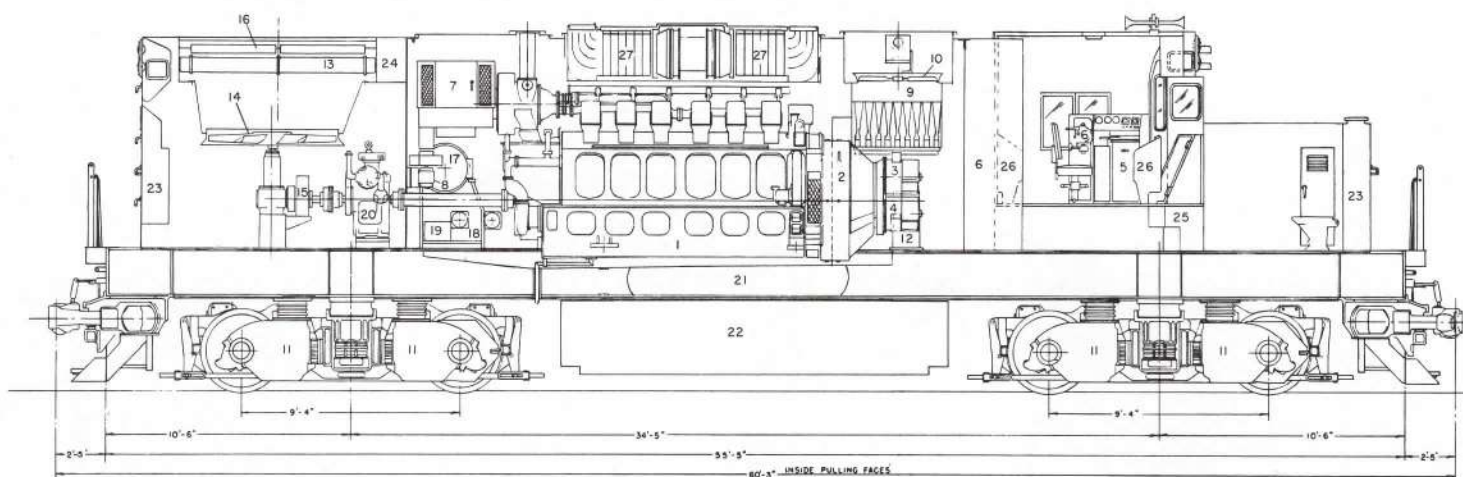
Basic Locomotive Weight: 108 860 Kg. (240,000 lbs.)

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

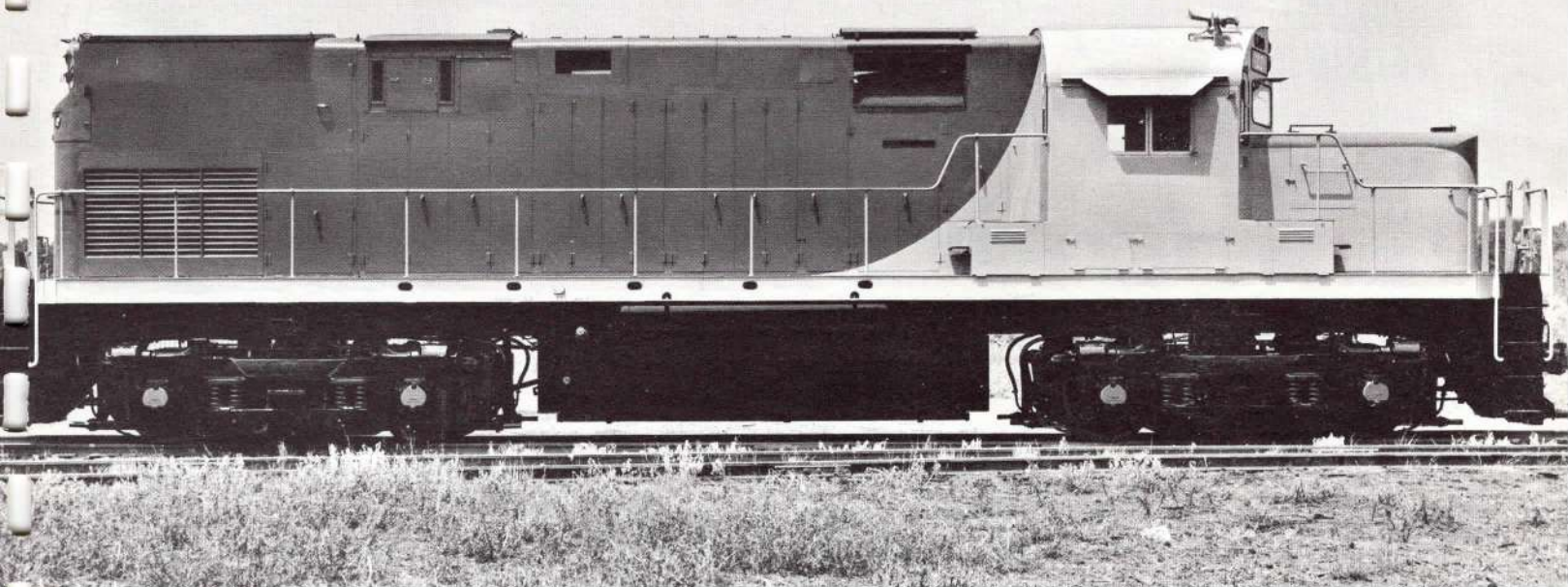
Wheel Diameter Basic: 1016 mm (40")

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

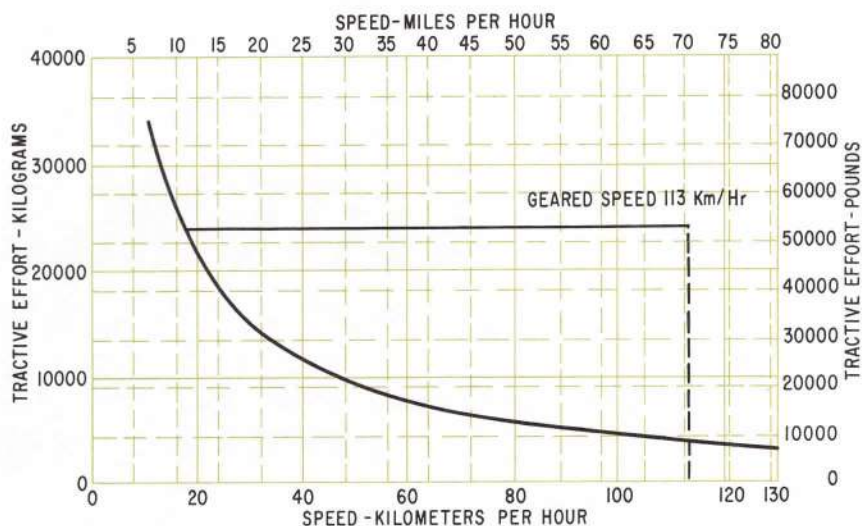


- | | | | |
|--|-------------------------------|------------------------------|---------------------------------|
| 1. Engine | 8. Air Cleaner Exhauster | 15. Radiator Fan Clutch | 22. Fuel Tank |
| 2. Main Generator | 9. Mechanical Air Cleaner | 16. Radiator Shutter | 23. Sand Box |
| 3. Exciter | (Gen. 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

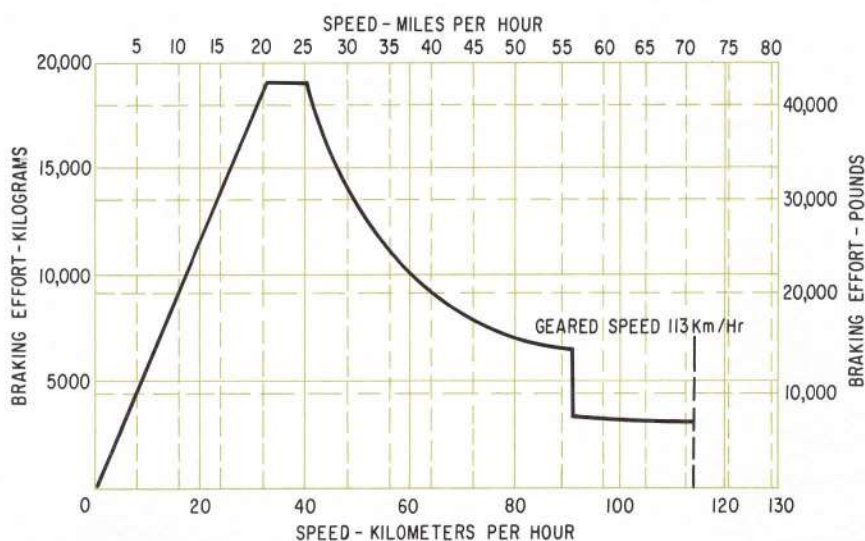
GEAR RATIO	TOP GEARED SPEED		MAXIMUM CONTINUOUS TRACTIVE EFFORT			
	Km/h.	MPH	Kg.	Lbs.	Km/h.	MPH
WITH 1016 mm (40") wheels						
74:18	113	70	24 040	53,000	18,0	11.2
65:18	129	80	21 090	46,500	20,8	12.9



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

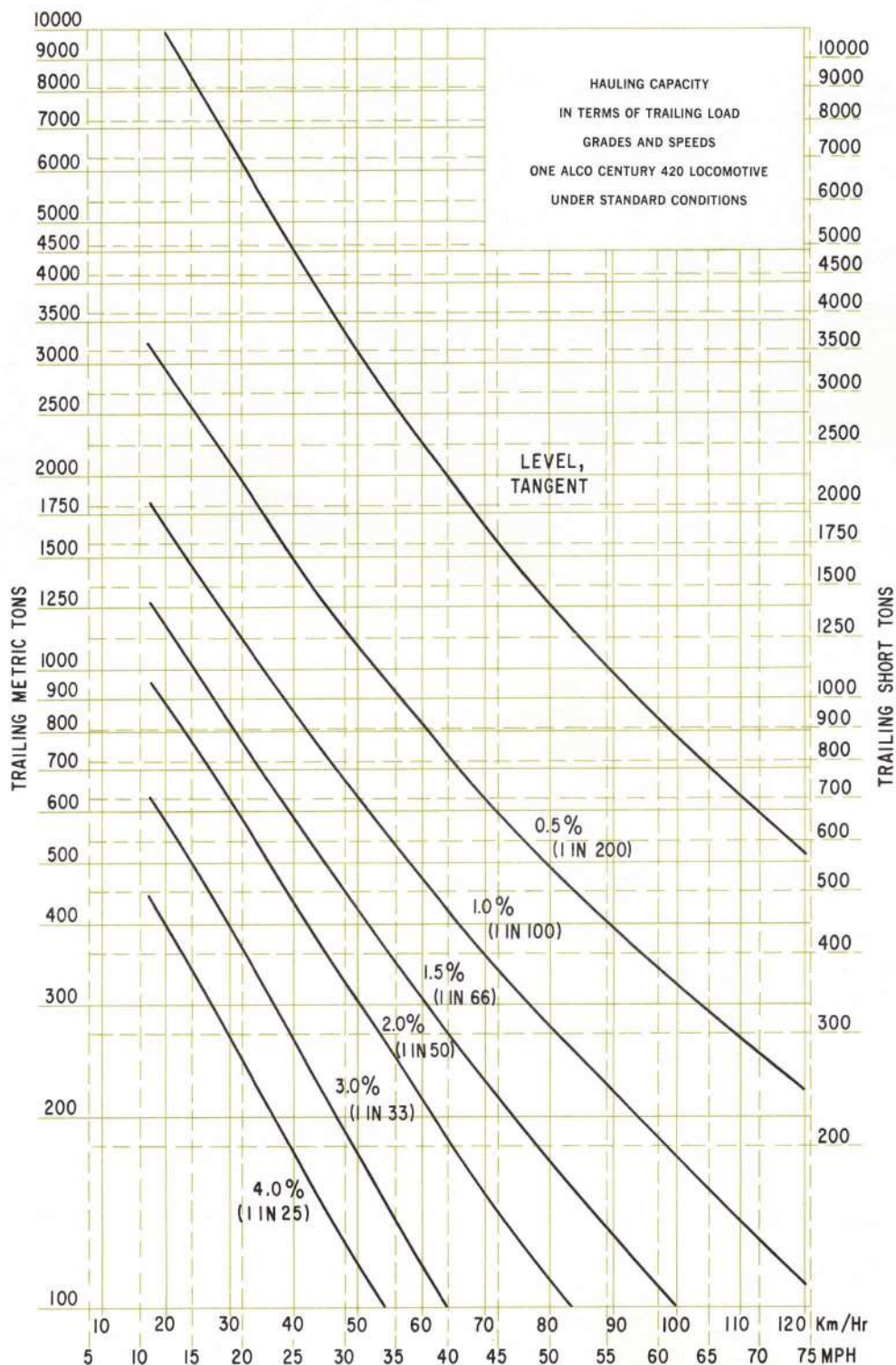
BRAKING EFFORT

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

ALCO

ALCO PRODUCTS, INC., 530 FIFTH AVENUE, NEW YORK, N. Y., 10036

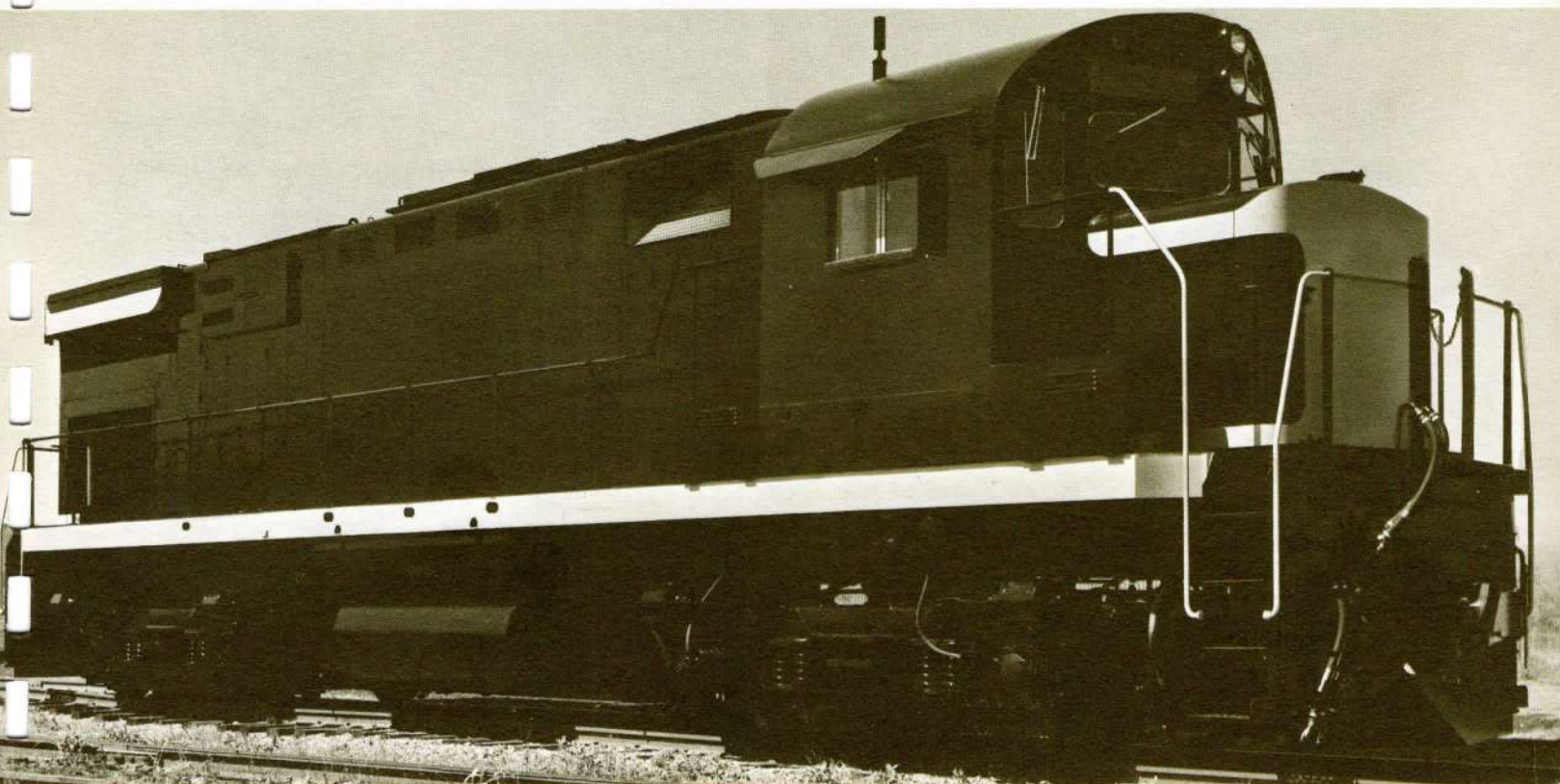
Cable Address: Locomotive, New York

ALCO

ALCO
2600/2400 HP
CENTURY 424 (2635/2430 CV)
DIESEL-ELECTRIC
LOCOMOTIVE

GENERAL SPECIFICATION DL-640-A

**STANDARD U.S. TYPE, ALL PURPOSE FOUR AXLE DIESEL-ELECTRIC LOCOMOTIVE
WITH 2430 CV NET INPUT TO THE GENERATOR**



ALCO

2600/2400 HP

CENTURY 424 (2635/2430 CV)

DIESEL-ELECTRIC LOCOMOTIVE

- A versatile unit for passenger or freight service on lines permitting U.S. maximum dimensions and axle loads from 29 metric tons upward (64,000 lbs.)
- For gauges from 1435 mm (4'8½").
- Dynamic brake can be applied.

Century 424 General Characteristics

Diesel Engine: ALCO 16-251-C 3090 CV (3050 BHP) set at 2635 CV for this application

Wheel Arrangement: Bo-Bo

Height (maximum)—4562 mm (14'11½")

Width (maximum)—3089 mm (10'1½")

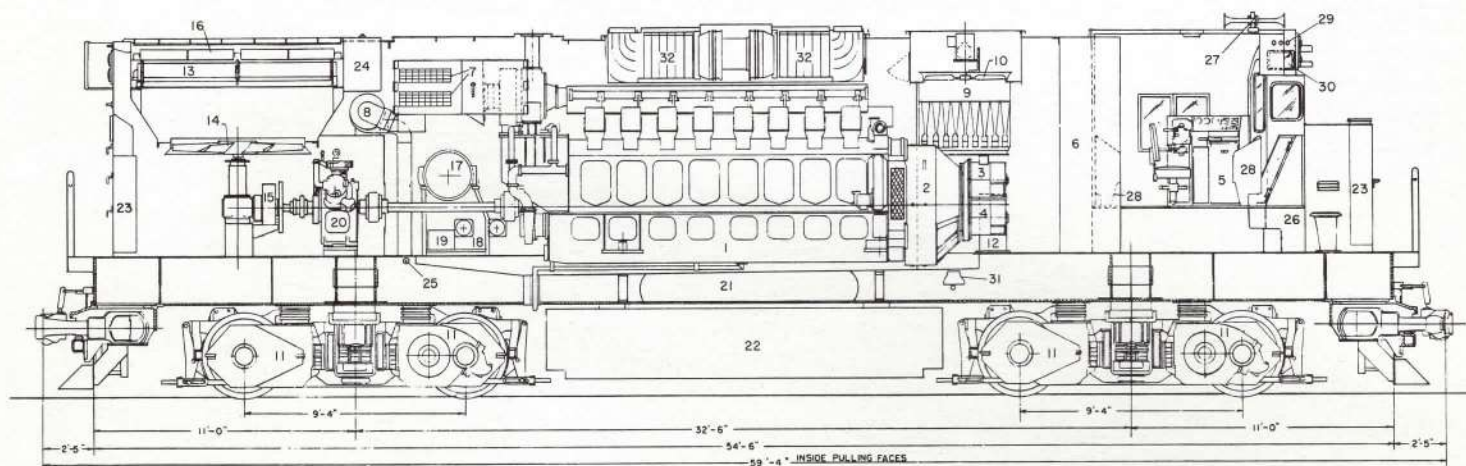
Length (over frame)—16612 mm (54'6")

Basic Locomotive Weight: 116 120 Kg. (256,000 lbs.)

Axle Load Basic: 29 030 Kg. (64,000 lbs.)

Wheel Diameter Basic: 1016 mm (40")

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

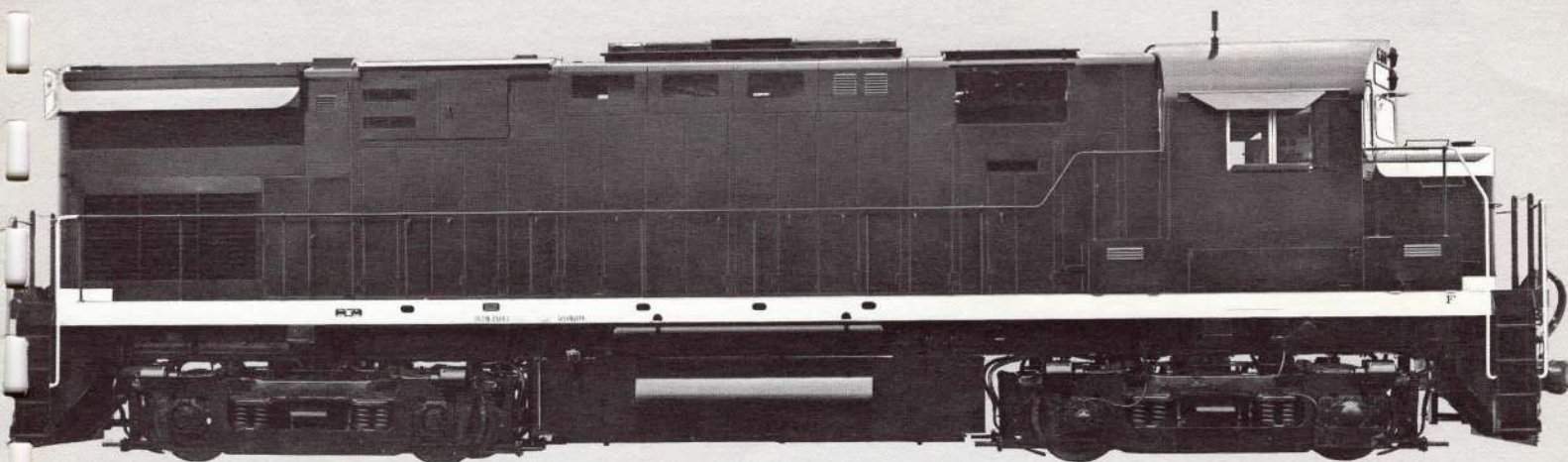


1. Engine
2. Main Generator
3. Exciter
4. Auxiliary Generator
5. Control Stand
6. Control Compartment
7. Mechanical Air Cleaner (Engine Air)
8. Air Cleaner Exhauster

9. Mechanical Air Cleaner (Gen. and Traction Motor Air)
10. Hood Pressurizing Fan
11. Traction Motor
12. Traction Motor Blower
13. Radiator
14. Radiator Fan
15. Radiator Fan Clutch

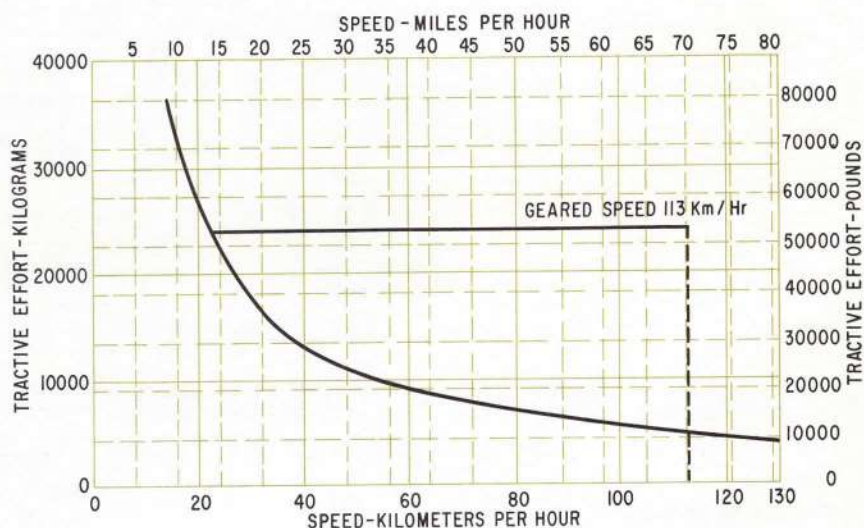
16. Radiator Shutter
17. Lubricating Oil Filter
18. Lubricating Oil Strainer
19. Lubricating Oil Cooler
20. Air Compressor
21. Main Air Reservoir
22. Fuel Tank
23. Sand Box
24. Engine Water Expansion Tank

25. Engine Water Fill and Drain
26. Batteries
27. Horn
28. Cab Heater
29. Classification Light
30. Number Box
31. Bell
32. Dynamic Brake



TRACTIVE EFFORT

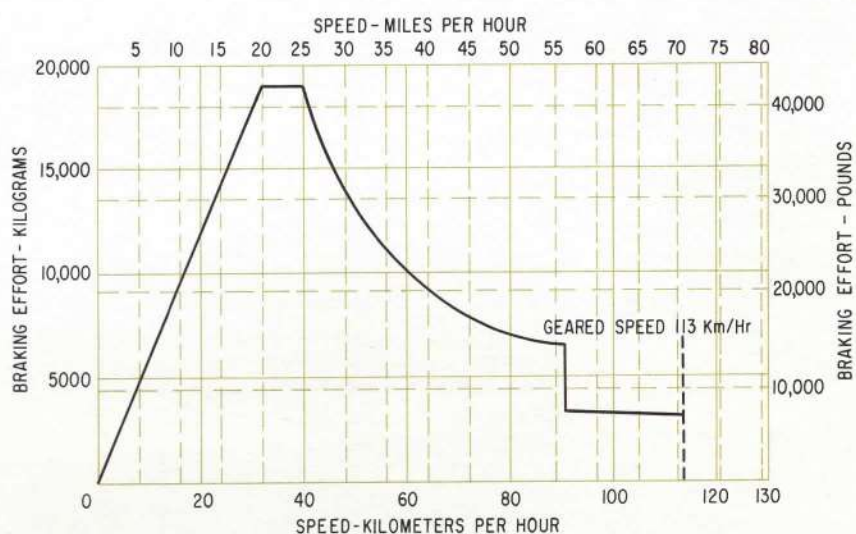
GEAR RATIO	TOP GEARED SPEED		MAXIMUM CONTINUOUS TRACTIVE EFFORT			
	Km/h.	MPH	Kg.	Lbs.	Km/h.	MPH
with 1016 mm (40") wheels						
74:18	113	70	24 040	53,000	22,5	14.0
65:18	128	80	21 090	46,500	26,5	16.5
64:19	138	86	19 705	43,500	28	17.4



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

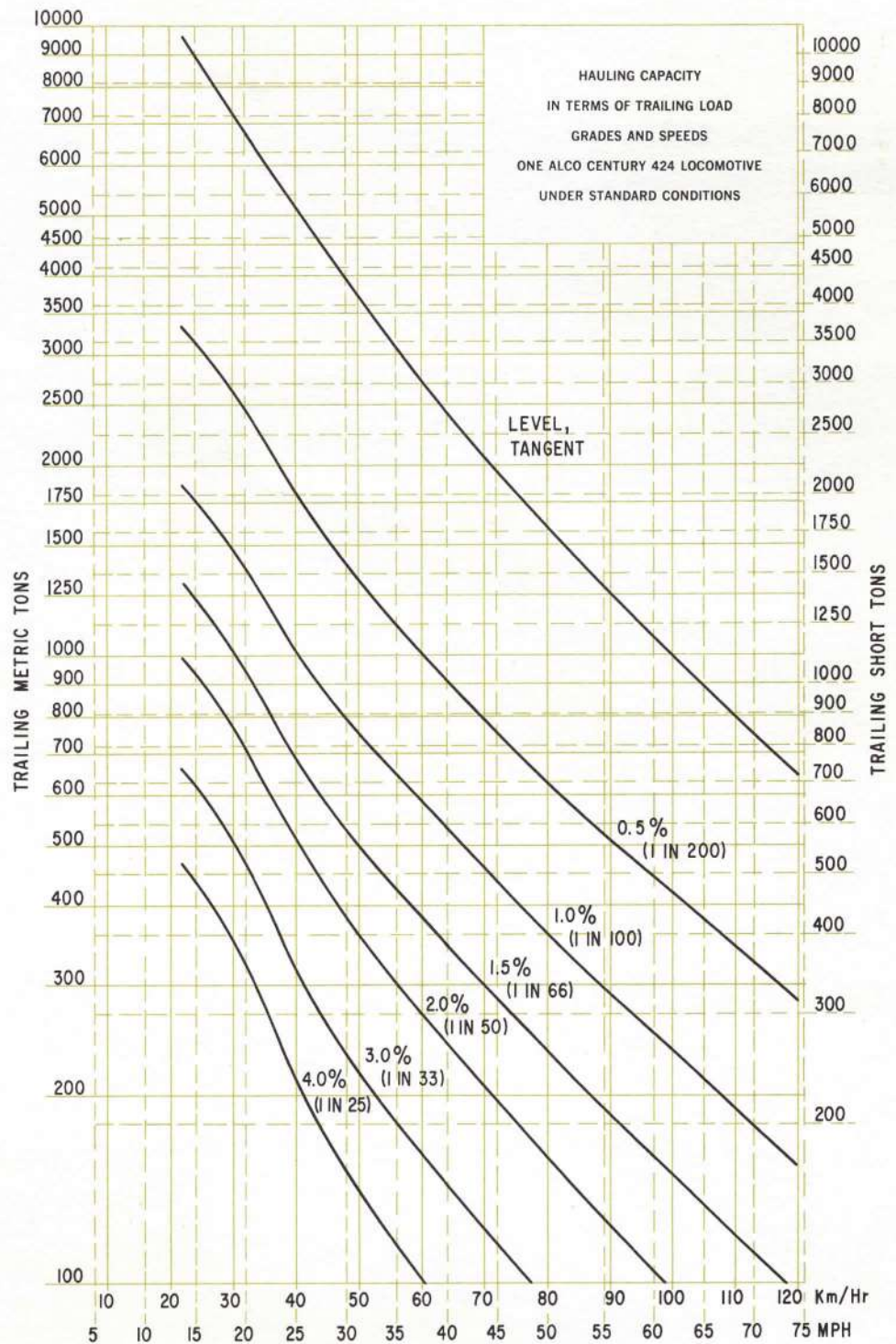
BRAKING EFFORT

GEAR RATIO	MAXIMUM BRAKING EFFORT		SPEED RANGE	
	Kg.	Lbs.	Km/h.	MPH
with 1016 mm (40'') wheels				
74:18	19 050	42,000	31,4/40,2	19.5/25
65:18	16 780	37,000	35,4/45,1	22/28
64:19	15 537	34,300	38,6/45,8	24/28.5



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

ALCO

ALCO PRODUCTS, INC., 530 FIFTH AVENUE, NEW YORK, N.Y., 10036

Cable Address: Locomotive, New York

ALCO

ALCO
3050/2750 HP
CENTURY 628 (3090/2790 CV)
DIESEL-ELECTRIC
LOCOMOTIVE

GENERAL SPECIFICATION DL-628

**STANDARD U.S. TYPE, ALL PURPOSE HEAVY DUTY SIX AXLE DIESEL-ELECTRIC
LOCOMOTIVE WITH 2790 CV NET INPUT TO THE GENERATOR**



ALCO

3050/2750 HP

CENTURY 628 (3090/2790 CV)

DIESEL-ELECTRIC LOCOMOTIVE

- A high power unit for the heaviest duties in passenger or freight service.
- Available for all gauges from 1435 mm (4' 8½") upwards, built for axle loads from 25,7 metric tons (56,666 lbs.)
- Equipped with high adhesion Trimount trucks.
- Dynamic brake can be applied.
- Steam generator for train heating can be applied.

Century 628 General Characteristics

Diesel Engine: ALCO 16-251-C 3090/2790 CV (3050/2750 HP)

Wheel Arrangement: Co-Co

Principal Dimensions:

Height (maximum) — 4724 mm (15' 6")

Width (maximum) — 3089 mm (10' 1½")

Length (over body) — 19710 mm (64' 8")

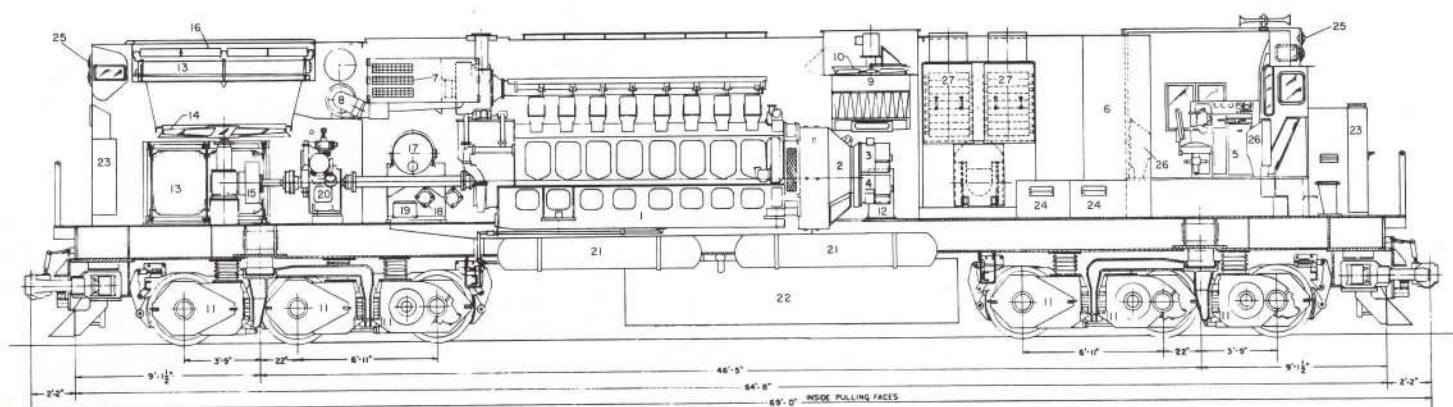
Basic Locomotive Weight: 154 224 Kg. (340,000 lbs.)

Axle Load: 25 704 Kg. (56,666 lbs.)

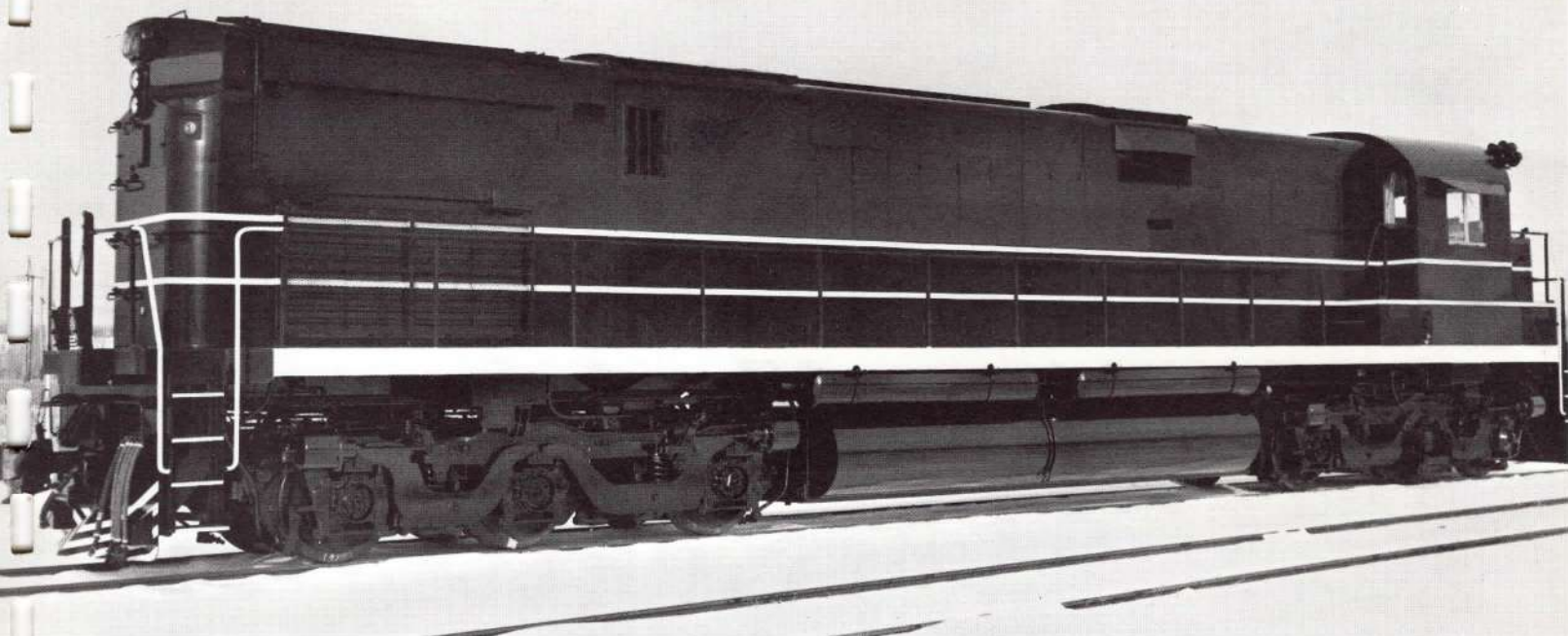
Wheel Diameter Basic: 1016 mm (40")

Fuel Oil Capacity Basic: 7 600 l. (2,000 U.S. Gallons); (1,670 Imp. Gallons)

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

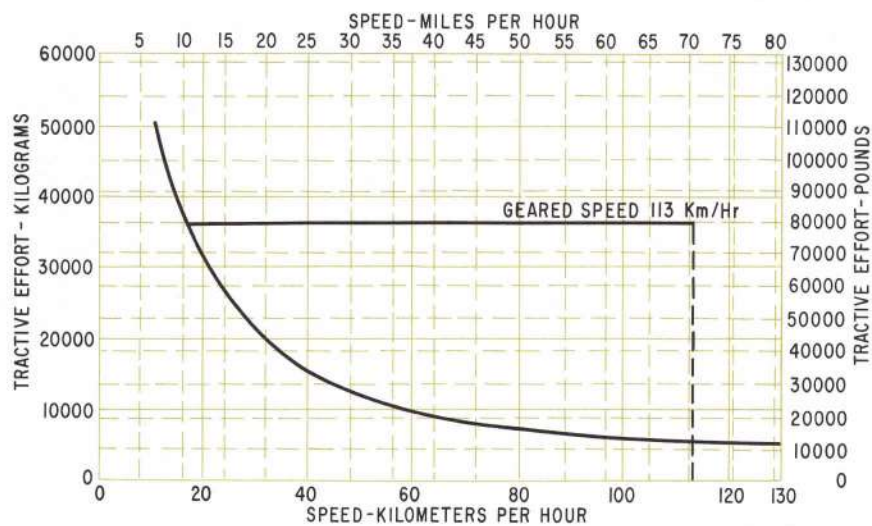


- | | | | |
|--|---|------------------------------|------------------------|
| 1. Engine | 8. Air Cleaner Exhauster | 14. Radiator Fan | 21. Main Air Reservoir |
| 2. Main Generator | 9. Mechanical Air Cleaner (Gen. and Traction Motor Air) | 15. Radiator Fan Clutch | 22. Fuel Tank |
| 3. Exciter | |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



TRACTIVE EFFORT

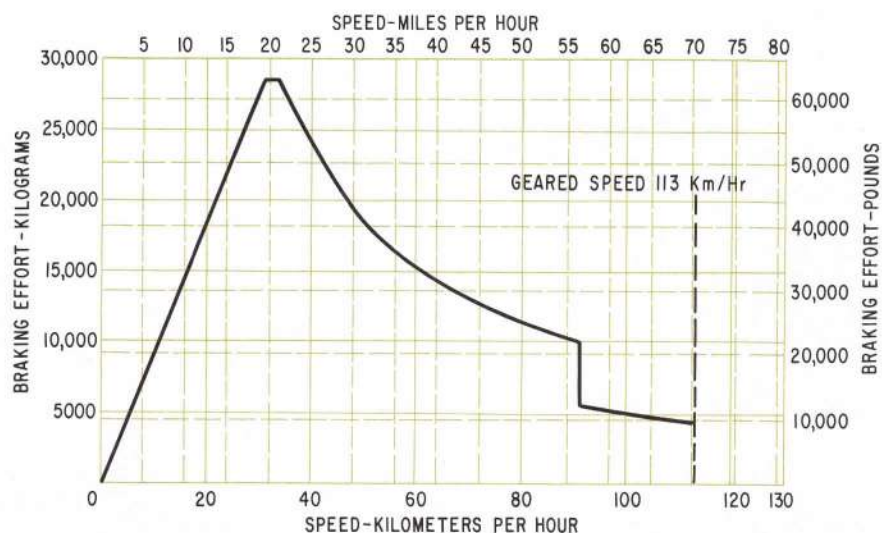
GEAR RATIO	TOP GEARED SPEED		MAXIMUM CONTINUOUS TRACTIVE EFFORT			
	Km/h.	MPH	Kg.	Lbs.	Km/h.	MPH
WITH 1016 mm (40") wheels						
74:18	113	70	36 060	79,500	16,6	10.3
65:18	129	80	31 660	69,800	19,3	12.0



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

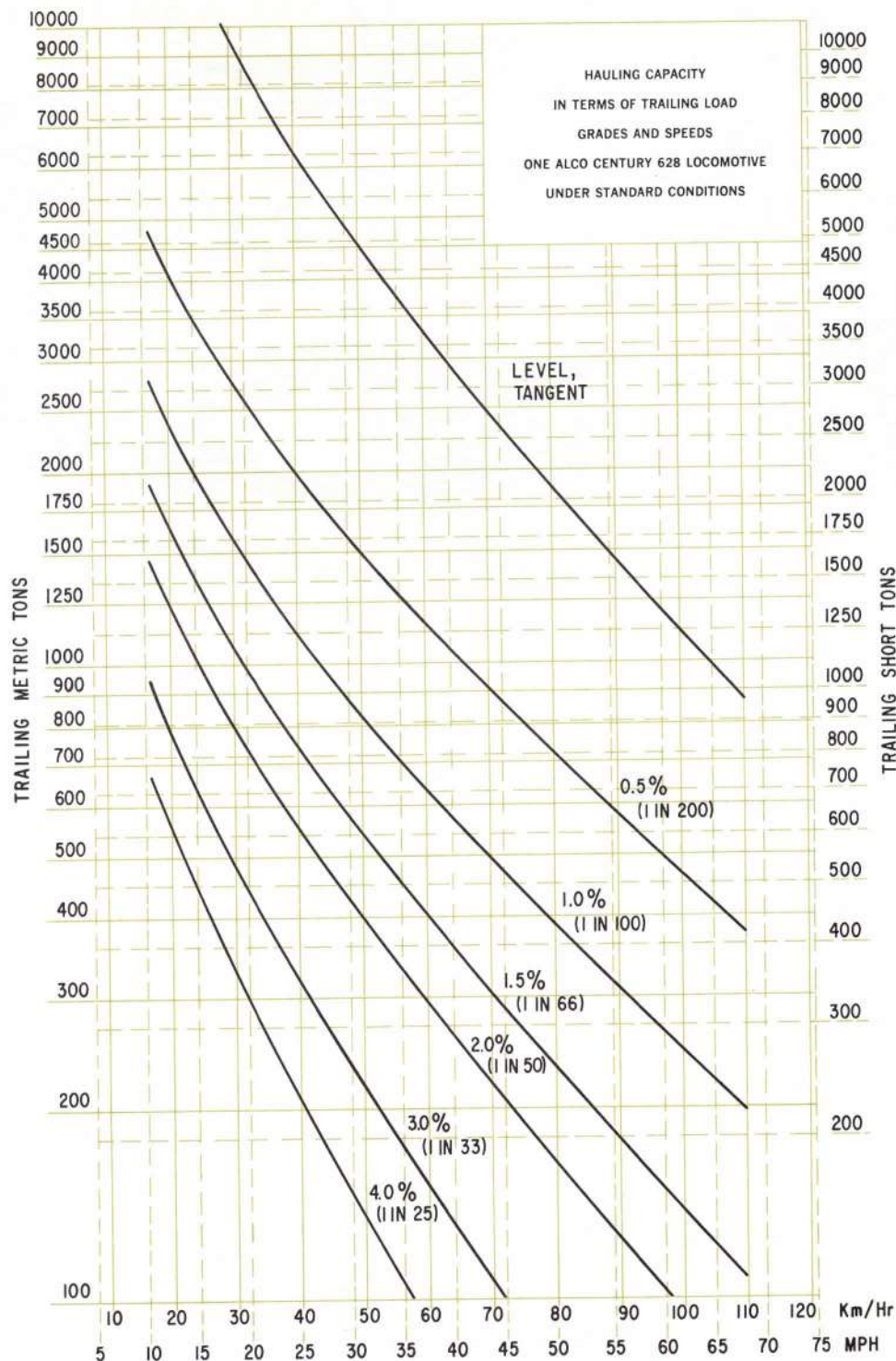
BRAKING EFFORT

GEAR RATIO	BRAKE PEAK SPEED		PEAK BRAKING EFFORT	
	Km/h.	MPH	Kg.	Lbs.
WITH 1016 mm (40") wheels				
74:18	31,4 to 33,8	19.5 to 21	28 580	63,000
65:18	35,4 to 38,6	22 to 24	25 060	55,250



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 50 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

ALCO

ALCO PRODUCTS, INC., 530 FIFTH AVENUE, NEW YORK, N.Y., 10036

Cable Address: Locomotive, New York