

TM2020 PE - DT12 Transmission Limits Summary Spreadsheet_Export Linehaul/Longhaul (A85-005), and Heavy Haul (A85-027)

Revision: 21NOV22 ¹	DT12-OA / OH			DT12-OC / OHE & DT12-OC / OV ←OV-not available with GHG17-DD13 or DD15 engines						DT12-OD / OVX		
Chassis:	P4 Cascadia [EUROS, GHG17 , Gen5, GHG21]			P4 Cascadia (Euro5, GHG17 , Gen5 DD13/DD15, GHG21 DD16), 114SD (DD13 EURO5 only), WST 47x (Gen5 DD13 HP only), WST49x (Gen5 DD13HP, Gen5 DD15 TCO/HP, GHG17 /GHG21 DD16), WST 57x (Gen5 DD13/DD15 TCO/HP, GHG21 DD16)						P4 Cascadia (EUROS, Gen5 DD15 HP, GHG17 /GHG21 DD16), WST 49x (Gen5 DD15 HP, GHG17 /GHG21 DD16)		
Domicile Location:	Mexico [GHG17 , Gen5, GHG21], Chile/Israel [GHG17 , Gen5, GHG21]			Mexico [EUROS, GHG17 , Gen5, GHG21] Chile [GHG17 , Gen5, GHG21], Colombia/Peru [EUROS], Costa Rica/Panama [EUROS]						Mexico [EUROS, GHG17 , Gen5, GHG21], Chile [GHG17 , Gen5, GHG21], Colombia/Peru [EUROS], Costa Rica/Panama [EUROS]		
Terrain/Duty (between job sites):	AA5-002: 100% paved roads			AA5-002: 100% paved roads						AA5-002: 100% paved roads		
Road Grades: Auto-Approve limit Max allowed	--- 8% ² 12%			--- 8% ² 12%						--- 8% ² 12%		
Road Type:	AB5-001 smooth concrete/asphalt			AB5-001 smooth concrete/asphalt						AB5-001 smooth concrete/asphalt		
(GCW-GVWR) Min. Diff:	20,000			20,000						20,000		
Load Profile ³ :	1 way / Both ways			1 way / Both ways						1 way only ³		
Engine(s):	DD13 (GHG17 , DD13 (Gen5 TCO & HP), DD15 (GHG17 , Gen5 TCO/HP))			DD16 (GHG17 , GHG21)			DD13 (EUROS, GHG17 , DD13 (Gen5 HP), DD15 (GHG17 , Gen5 HP), DD16 (GHG17 , GHG21))			DD13 (EUROS, GHG17 , Gen5 HP), DD15 (GHG17 , Gen5 HP), DD16 (EUROS, GHG17 , GHG21)		
Torque Limit [Lb-Ft]:	1850			1850			2213			2213		
Minimum FDR Limits (Max GCW): Minimum-Auto-Approve	1400 (≤80k) 1515 (80k < GCW ≤ 105k)			1245 (GCW ≤ 80k), 1440 (80k < GCW ≤ 105k)			1440 (GCW ≤ 110k), 1525 (110k < GCW ≤ 120k)			1820 (120k < GCW ≤ 130k), 1920 (130k < FDR ≤ 140k)		
Rear Transmission PTO Available:	Yes			Yes						Yes		
Side Transmission PTO Available:	No			Yes						Yes		
Major Transmission PTO Limits:	See DDC-ENG-MAN-001 on DTNAconnect.com			See DDC-ENG-MAN-001 on DTNAconnect.com						See DDC-ENG-MAN-001 on DTNAconnect.com		
Transmission Cooler:	Standard (AOC)			Standard (AOC)						Standard (AOC)		
Min. Startability (SpecPro / Actual):	16 ²			16 ²						[15 / 16 ²]		
Max Engine rpm @ Cruise:	1350 (Gen5 DD13 TCO), 1500 (Gen5 DD15 TCO), 1625 (GHG17-DD13/DD15), 1625 (Gen5 DD13HP/DD15 HP)			1800 (GHG17 /GHG21 DD16)			1350 (Gen5 DD13 TCO)			1500 (Gen5 DD15 TCO), 1600 (EUROS DD13), 1625 (GHG17-DD13/DD15), 1625 (Gen5 DD13 HP/DD15 HP)		
Max Engine rpm @ Road Speed Limit:	1500 (Gen5 DD13 TCO), 1650 (Gen5 DD15 TCO), 1775 (GHG17-DD13/DD15), 1775 (Gen5 DD13HP/DD15HP)			1950 (GHG17 /GHG21 DD16)			1500 (Gen5 DD15 TCO)			1650 (Gen5 DD15 TCO) 1750 (EUROS DD13) 1775 (GHG17-DD13/DD15), 1775 (Gen5 DD13 HP/DD15 HP)		
Min. Axle Ratio (Recommended):	2.79 (≤ 80k GCW) 3.07 (> 80k GCW)			3.07			2.53 (≤ 80k GCW) 2.85 (> 80k GCW)			2.85		
Max. Axle Ratio (Recommended):	3.42 (hard limit, not a recommendation)			---						3.7		

NOTES:

- 1) Previous revision was dated 01JUN22.
- 2) Startability requirement increases 1 point for every 1% max grade above 8%.
- 3) Load Profile indicates whether vehicle will be loaded 1 way or both ways of a trip/route.
- 4) 130k < GCW's < 140k allowed with DT12-OA/OH/OH, but an additional DETROIT Powertrain review is required.

	DT12-DC / DHE [RHD]		DT12-OC / OHE & DT12-OC / OV [RHD]		DT12-OD / OVX [RHD]	
Chassis:	P4 Cascadia [GHG17], WST 47x/48x/49x [Gen5/GHG21]		P4 Cascadia [GHG17], WST 47x [DD13 HP only], WST 48x/49x [Gen5/GHG21]		P4 Cascadia [GHG17], WST 48x/49x [GHG21]	
Domicile Location:	Australia/New Zealand/South Africa		Australia / New Zealand / South Africa		Australia / New Zealand / South Africa	
Terrain/Duty (between job sites):	AA5-002: 100% paved roads		AA5-002: 100% paved roads		AA5-002: 100% paved roads	
Road Grades: Auto-Approve limit Max allowed	--- 8% ² 12%		--- 8% ² 12%		--- 8% ² 12%	
Road Type:	AB5-001 smooth concrete/asphalt		AB5-001 smooth concrete/asphalt		AB5-001 smooth concrete/asphalt	
(GCW-GVWR) Min. Diff:	20,000		20,000		20,000	
Load Profile ³ :	1 way / Both ways		1 way / Both ways ³ 1 way only ³		1 way only ³	
Engine(s):	DD13 (GHG17), DD13 (Gen5 HP)		DD13 (GHG17, Gen5 HP), DD16 (GHG17, GHG21)		DD16 (GHG17, GHG21)	
Torque Limit [Lb-Ft]:	1850		2050		2050	
Minimum FDR Limits (Max GCW): Minimum-Auto-Approve	1005 ⁵⁶ (GCW ≤ 80k) 1185 (80k < GCW ≤ 110k)		1515 (GCW ≤ 160k)		1625 (140,001 ≤ GCW ≤ 240k) 1915 (240k < GCW ≤ 330k)	
Rear Transmission PTO Available:	Yes		Yes		Yes	
Side Transmission PTO Available:	Yes		Yes		Yes	
Major Transmission PTO Limits:	See DDC-ENG-MAN-001 on DTNAconnect.com		See DDC-ENG-MAN-001 on DTNAconnect.com		See DDC-ENG-MAN-001 on DTNAconnect.com	
Transmission Cooler:	Standard (AOC)		Standard (AOC)		Standard (AOC)	
Min. Startability (SpecPro / Actual):	16 ²		16 ²		[10.5 / 15 ²] [9.5 / 13 ²]	
Max Engine rpm @ Cruise:	1625 (GHG17 DD13), 1625 (Gen5 DD13 HP)		1625 (GHG17 DD13, Gen5 DD13 HP) 1800 (GHG17/GHG21 DD16)		1800 (GHG17/GHG21 DD16) 1800 (GHG21 DD16)	
Max Engine rpm @ Road Speed Limit:	1775 (GHG17 DD13), 1775 (Gen5 DD13 HP)		1775 (GHG17 DD13, Gen5 DD13 HP) 1950 (GHG17/GHG21 DD16)		1950 (GHG17/GHG21 DD16) 1950 (GHG21 DD16)	
Min. Axle Ratio (Recommended):	2.05 2.41		3.07		3.3 3.9	
Max. Axle Ratio (Recommended):	2.28 2.67		---		---	

TM2020 PE - DT12 Transmission Limits Summary Spreadsheet_Pickup & Delivery-Shorthaul (A85-002)

Revision: 21NOV22¹

	DT12-DB / DHL			DT12-OB / OHL			DT12-DA / DH		DT12-OA / OH							
Chassis:	P4 Cascadia	P4 Cascadia	P4 Cascadia, M2-112, 114SD	P4 Cascadia	P4 Cascadia	P4 Cascadia, M2-112, 114SD	P4 Cascadia	P4 Cascadia, WST 57x	P4 Cascadia [GHG17-DD13/DD15/DD16 engines], P4 Cascadia & WST 57x [Gen5 DD13 & DD15, GHG21 DD16]							
Domicile Location:	USA [incl. Puerto Rico] / Canada			USA [incl. Puerto Rico] / Canada			USA [incl. Puerto Rico] / Canada		USA [incl. Puerto Rico] / Canada							
Terrain/Duty (between job sites):	AA5-002: 100% paved roads			AA5-002: 100% paved roads			AA5-002: 100% paved roads		AA5-002: 100% paved roads							
Road Grades:	---			---			---		---							
Auto-Approve limit	8% ²			8% ²			8% ²		8% ³							
Max allowed	12%			12%			12%		12%							
Road Type:	ABS-001 smooth concrete/asphalt			ABS-001 smooth concrete/asphalt			ABS-001 smooth concrete/asphalt		ABS-001 smooth concrete/asphalt							
(GCW-GVWR) Min. Diff:	20,000			20,000			20,000		20,000							
Load Profile ³ :	1 way / Both ways			1 way / Both ways			1 way / Both ways		1 way / Both ways							
Engine(s):	DD13 (GHG17)	DD13 (Gen5 TCO)	DD13 (Gen5 HP)	DD13 (GHG17)	DD13 (Gen5 TCO)	DD13 (Gen5 HP)	DD13 (GHG17)	DD13 (Gen5 TCO & HP)	DD13 (Gen5 TCO)	DD15 (Gen5 TCO)	DD13 (GHG17), DD13 (Gen5 HP), DD15 (Gen5 HP)	DD13 (Gen5 TCO)	DD15 (Gen5 TCO)	DD13 (GHG17), DD13 (Gen5 HP), DD15 (Gen5 HP)	DD16 (GHG17), DD16 (GHG21)	
Torque Limit (Lb-Ft):	1550			1650			1750		1750		1850		2050			
Minimum FDR Limits (Max GCW):	1180 (GCW ≤ 80k)			1400 (GCW ≤ 80k)			1090 (GCW ≤ 80k)		1325 ⁵ (GCW ≤ 80k)		1325 ⁵ (GCW ≤ 80k)		1325 ⁵ (GCW ≤ 80k)		1500 (GCW ≤ 105k)	
Minimum Auto-Approve:	1180 (GCW ≤ 80k)			1400 (GCW ≤ 80k)			1180 (80k < GCW ≤ 85k)		1500 (80k < FDR ≤ 105k)		1500 (80k < FDR ≤ 105k)		1500 (80k < FDR ≤ 105k)		1500 (GCW ≤ 105k)	
Rear Transmission PTO Available:	Yes			Yes			Yes		Yes		Yes		Yes		Yes	
Side Transmission PTO Available:	No			No			No		No		No		No		No	
Major Transmission PTO Limits:	See DDC-ENG-MAN-001 on DTNAconnect.com			See DDC-ENG-MAN-001 on DTNAconnect.com			See DDC-ENG-MAN-001 on DTNAconnect.com		See DDC-ENG-MAN-001 on DTNAconnect.com		See DDC-ENG-MAN-001 on DTNAconnect.com		See DDC-ENG-MAN-001 on DTNAconnect.com		See DDC-ENG-MAN-001 on DTNAconnect.com	
Transmission Cooler:	Standard (AOC)			Standard (AOC)			Standard (AOC)		Standard (AOC)		Standard (AOC)		Standard (AOC)		Standard (AOC)	
Min. Startability:	18 ²			18 ²			18 ²		18 ²		18 ²		18 ²		18 ²	
Max Engine rpm @ Cruise:	1625 (GHG17-DD13)	1350 (Gen5 DD13 TCO)	1625 (Gen5 DD13 HP)	1625 (GHG17-DD13)	1350 (Gen5 DD13 TCO)	1625 (Gen5 DD13 HP)	1625 (GHG17-DD13/DD15)	1350 (Gen5 DD13 TCO), 1500 (Gen5 DD15 TCO), 1625 (Gen5 DD13 HP), 1625 (Gen5 DD15 HP)	1350 (Gen5 DD13 TCO)	1500 (Gen5 DD15 TCO)	1625 (GHG17-DD13/DD15), 1625 (Gen5 DD13 HP), 1625 (Gen5 DD15 HP)	1350 (Gen5 DD13 TCO)	1500 (Gen5 DD15 TCO)	1625 (GHG17-DD13/DD15), 1625 (Gen5 DD13 HP), 1625 (Gen5 DD15 HP)	1800 (GHG17-DD16), 1800 (GHG21 DD16)	
Max Engine rpm @ Road Speed Limit:	1775 (GHG17-DD13)	1500 (Gen5 DD13 TCO)	1775 (Gen5 DD13 HP)	1775 (GHG17-DD13)	1500 (Gen5 DD13 TCO)	1775 (Gen5 DD13 HP)	1775 (GHG17-DD13/DD15)	1500 (Gen5 DD13 TCO), 1650 (Gen5 DD15 TCO), 1775 (Gen5 DD13 HP), 1775 (Gen5 DD15 HP)	1500 (Gen5 DD13 TCO)	1650 (Gen5 DD15 TCO)	1775 (GHG17-DD13/DD15), 1775 (Gen5 DD13 HP), 1775 (Gen5 DD15 HP)	1500 (Gen5 DD13 TCO)	1650 (Gen5 DD15 TCO)	1775 (Gen5 DD13 HP), 1775 (Gen5 DD15 HP)	1950 (GHG17-DD16), 1950 (GHG21 DD16)	
Min. Axle Ratio (Recommended):	2.41			2.79			2.28		2.79 (≤ 80k GCW)		3.07 (> 80k GCW)		3.07		3.07	
Max. Axle Ratio (Recommended):	2.67			---			2.67		---		---		---		3.42 (hard limit, not a recommendation)	

- NOTES:
 1) Previous revision was dated 01JUN22.
 2) Startability requirement increases 1 point for every 1% max grade above 8%.
 3) Load Profile indicates whether vehicle will be loaded 1 way or both ways of a trip/route.
 4) 130k < GCW's < 140k allowed with DT12-OA/OH1/OH, but an additional DETROIT Powertrain review is required.
 5) FDR's on DT12-OA/OH < 1400 require: (2.61 < RAR < 2.85) + (400-1750, 425-1750, or 455-1750 lb-ft engine rating).

	DT12-DC / DHE				DT12-OC/OHE & DT12-OC / OV [OV n/a in WST 4700/5700 legacy chassis or with GHG17-DD13 & DD15 engines]					
Chassis:	P4 Cascadia	P4 Cascadia, WST 57x	P4 Cascadia, M2-112, 114SD, WST 47x/49x/57x	P4 Cascadia / WST 49x/57x	P4 Cascadia, WST 47x/57x	P4 [DD13/DD15], WST 49x/57x [Gen5 DD15]	P4 Cascadia, M2-112, 114SD, WST 47x/49x/57x	P4 Cascadia [DD16], WST 49x/57x [GHG21]		
Domicile Location:	USA [incl. Puerto Rico] / Canada				USA [incl. Puerto Rico] / Canada					
Terrain/Duty (between job sites):	AA5-002: 100% paved roads				AA5-002: 100% paved roads					
Road Grades:	---				---					
Auto-Approve limit	8% ²				8% ²					
Max allowed	12%				12%					
Road Type:	ABS-001 smooth concrete/asphalt				ABS-001 smooth concrete/asphalt					
(GCW-GVWR) Min. Diff:	20,000				20,000					
Load Profile ³ :	1 way only ³				1 way only ³					
Engine(s):	DD13 (GHG17)	DD13 (Gen5 TCO)	DD13 (Gen5 HP)	DD15 (Gen5 TCO)	DD13 (Gen5 TCO)	DD13 (GHG17), DD15 (GHG17), DD15 (Gen5 TCO & HP)	DD13 (Gen5 HP)	DD16 (GHG17), GHG21		
Torque Limit (Lb-Ft):	1850				1850					
Minimum FDR Limits (Max GCW):	1245 (GCW ≤ 80k)				1300 (GCW ≤ 80k)		1300 (GCW ≤ 80k)		1525 (GCW ≤ 110k)	
Minimum Auto-Approve:	1245 (GCW ≤ 80k)				1525 (80k < GCW ≤ 105k)		1525 (80k < GCW ≤ 110k)		1525 (80k < GCW ≤ 110k)	
Rear Transmission PTO Available:	Yes				Yes					
Side Transmission PTO Available:	Yes				Yes					
Major Transmission PTO Limits:	See DDC-ENG-MAN-001 on DTNAconnect.com				See DDC-ENG-MAN-001 on DTNAconnect.com					
Transmission Cooler:	Standard (AOC)				Standard (AOC)					
Min. Startability:	18 ²				18 ²					
Max Engine rpm @ Cruise:	1625 (GHG17-DD13)	1350 (Gen5 DD13 TCO)	1625 (Gen5 DD13 HP)	1500 (Gen5 DD15 TCO), 1625 (Gen5 DD15 HP)	1350 (Gen5 DD13 TCO)	1500 (Gen5 DD15 TCO), 1625 (GHG17-DD13/DD15), 1625 (Gen5 DD15 TCO & HP)	1625 (Gen5 DD13 HP)	1800 (GHG17/GHG21 DD16)		
Max Engine rpm @ Road Speed Limit:	1775 (GHG17-DD13)	1500 (Gen5 DD13 TCO)	1775 (Gen5 DD13 HP)	1650 (Gen5 DD15 TCO), 1775 (Gen5 DD15 HP)	1500 (Gen5 DD13 TCO)	1650 (Gen5 DD15 TCO), 1775 (GHG17-DD13/DD15), 1775 (Gen5 DD15 TCO & HP)	1775 (Gen5 DD13 HP)	1950 (GHG17/GHG21 DD16)		
Min. Axle Ratio (Recommended):	2.53				2.79 (≤ 80k)		3.07 (80k < GCW ≤ 110k)		3.07	
Max. Axle Ratio (Recommended):	2.85				---		---		---	

TM2020 PE - DT12 Transmission Limits Summary Spreadsheet_Export Pickup & Delivery-Shorthaul (A85-002)

Revision: 21NOV22¹

	DT12-OA / OH (EXPORT)				DT12-OC / OHE & DT12-OC / OV [EXPORT] <i>(- OV not available with GHG17 DD13 & DD15 engines)</i>				DT12-OC/OHE & DT12-OC / OV (RHD)		
Chassis:	P4 Cas (GHG17)	P4 Cascadia [Gen5], WST 57x [Gen5]	P4 Cascadia [Gen5, GHG17], WST 57x [Gen5]		P4 Cascadia	P4 Cascadia	M2-112 [Gen5 HP only], 114SD [Euro5, Gen5 HP]	P4 Cascadia	WST 47x (Gen5 DD13 HP only), WST 48x		
Domicile Location:	Mexico (GHG17, Gen5 P4 only), Chile/Israel (GHG17, Gen5)				Mexico [EURO5, GHG17, Gen5, GHG21], Colombia/Peru [Euro5-P4/114SD only], Chile/Israel (GHG17, Gen5, GHG21)				Australia / South Africa		
Terrain/Duty (between job sites):	AA5-002: 100% paved roads				AA5-002: 100% paved roads				AA5-002: 100% paved roads		
Road Grades:	---				---				---		
Auto-Approve limit	8% ²				8% ²				8% ²		
Max allowed	12%				12%				12%		
Road Type:	AB5-001 smooth concrete/asphalt				AB5-001 smooth concrete/asphalt				AB5-001 smooth concrete/asphalt		
(GCW-GVWR) Min. Diff:	20,000				20,000				20,000		
Load Profile ³ :	1 way / Both ways			1 way	1 way only ³			1 way only ³			
Engine(s):	DD13 / DD15 (GHG17)	DD13 & DD15 (Gen5 TCO & HP)	DD13 (GHG17), DD13 (Gen5 HP), DD15 (Gen5 HP)	DD16 (GHG17)	DD13 (Gen5 TCO)	DD13 (GHG17, EURO5), DD15 (GHG17), DD15 (Gen5 TCO & HP)	DD13 (Euro5) DD13 (Gen5 HP)	DD16 (EURO5, GHG17), DD16 (GHG21)	DD13 (Gen5 HP), DD16 (GHG21)	DD16 (GHG21)	
Torque Limit [Lb-Ft]:	1850		1850	2050	1850			2213	1850	2050	
Minimum FDR Limits (Max GCW):	1400 (GCW ≤ 80k) 1515 (80k < GCW ≤ 105k)		1400 (GCW ≤ 80k) 1515 (80k < GCW ≤ 105k)	1515 (GCW ≤ 105k)	1525 (GCW ≤ 110k)				1325 (GCW ≤ 80k) 1525 (80k < GCW ≤ 110k)	1525 (GCW ≤ 110k)	
Minimum Auto-Approve											
Rear Transmission PTO Available:	Yes				Yes				Yes		
Side Transmission PTO Available:	No				Yes				Yes		
Major Transmission PTO Limits:	See DDC-ENG-MAN-001 on DTNAconnect.com				See DDC-ENG-MAN-001 on DTNAconnect.com				See DDC-ENG-MAN-001 on DTNAconnect.com		
Transmission Cooler:	Standard (AOC)				Standard (AOC)				Standard (AOC)		
Min. Startability:	18 ²				18 ²				18 ²		
Max Engine rpm @ Cruise:	1625 (GHG17 DD13/DD15)	1350 (Gen5 DD13 TCO), 1500 (Gen5 DD15 TCO), 1625 (Gen5 DD13 HP), 1625 (Gen5 DD15 HP)	1625 (GHG17 DD13) 1625 (Gen5 DD13 HP & DD15 HP) 1800 (GHG17 DD16)		1350 (Gen5 DD13 TCO)	1500 (Gen5 DD15 TCO), 1600 [EURO5 DD13], 1625 (GHG17 DD13/DD15) , 1625 (Gen5 DD15 HP)	1600 (Euro5 DD13), 1625 (Gen5 DD13 HP)	1600 [EURO5 DD16], 1800 (GHG17 DD16) , 1800 (GHG21 DD16)	1625 (Gen5 DD13 HP), 1800 (GHG21 DD16)	1800 (GHG21 DD16)	
Max Engine rpm @ Road Speed Limit:	1775 (GHG17 DD13/DD15)	1500 (Gen5 DD13 TCO), 1650 (Gen5 DD15 TCO), 1775 (Gen5 DD13 HP), 1775 (Gen5 DD15 HP)	1775 (GHG17 DD13) 1775 (Gen5 DD13 HP & DD15 HP) 1950 (GHG17 DD16)		1500 (Gen5 DD13 TCO)	1650 (Gen5 DD15 TCO), 1750 [EURO5 DD13], 1775 (GHG17 DD13/DD15) , 1775 (Gen5 DD15 HP)	1700 (Euro5 DD13), 1775 (Gen5 DD13 HP)	1750 [EURO5 DD16], 1950 (GHG17 DD16) , 1950 (GHG21 DD16)	1775 (Gen5 DD13 HP), 1950 (GHG21 DD16)	1950 (GHG21 DD16)	
Min. Axle Ratio (Recommended):	3.07		3.07		3.07				2.79 (≤ 80k), 3.07 (80k < GCW ≤ 110k)		
Max. Axle Ratio (Recommended):	3.42 (hard limit, not a recommendation)				---				---		

NOTES:

- 1) Previous revision was dated 01JUN22.
- 2) Startability requirement increases 1 point for every 1% max grade above 8%.
- 3) Load Profile indicates whether vehicle will be loaded 1 way or both ways of a trip/route.

TM2020 PE - DT12 Transmission Limits Summary Spreadsheet_Recreation (A85-016)

Revision: 21NOV22¹

	DT12-OB / OHL	DT12-OA / OH							DT12-OC / OHE & OV [OV not available with WST 5700 legacy chassis or GHG17 DD13 & DD15 engines]						
Chassis:	P4 Cascadia	P4 Cascadia [GHG17 DD13/DD15/DD16], P4 Cascadia & WST 57x [Gen5 DD13 TCO/HP & DD15 TCO/HP, DD16-GHG21], WST 49x [Gen5 DD13 HP, DD15 TCO/HP, DD16-GHG21]							P4 Cascadia [GHG17 DD13/DD15/DD16], P4 Cascadia & WST 57x [Gen5 DD13 TCO/HP & DD15 TCO/HP, DD16-GHG21], WST 49x [Gen5 DD13 HP, DD15 TCO/HP, DD16-GHG21]						
Domicile Location:	USA (incl. Puerto Rico), Canada	USA (incl. Puerto Rico) / Canada							USA (incl. Puerto Rico) / Canada						
Terrain/Duty (between job sites):	AA5-002-100%-paved-roads	AA5-002: 100% paved roads							AA5-002: 100% paved roads						
Road Grades: Auto-Approve limit Max allowed	--- -8% ² 12%	--- 8% ² 12%							--- 8% ² 12%						
Road Type:	AB5-001-smooth-concrete/asphalt	AB5-001 smooth concrete/asphalt							AB5-001 smooth concrete/asphalt						
(GCW-GVWR) Min. Diff:	5,000	5,000							5,000						
Load Profile ³ :	1-way-/Both-ways	1 way / Both ways							1 way / Both ways			1 way	1 way		
Engine(s):	DD13 (GHG17)	DD13 / DD15 (GHG17), DD13 (Gen5 HP), DD15 (Gen5 HP)	DD13 (Gen5 TCO)	DD15 (Gen5 TCO)	DD13 (GHG17), DD13 (Gen5 HP), DD15 (Gen5 HP)	DD13 (Gen5 TCO)	DD15 (Gen5 TCO)	DD16 (GHG17, GHG21)	DD13 / DD15 (GHG17), DD13 (Gen5 TCO & HP), DD15 (Gen5 TCO & HP)	DD13 (Gen5 TCO)	DD13 / DD15 (GHG17), DD13 (Gen5 HP), DD15 (Gen5 HP), DD16 (GHG17, GHG21)	DD13 / DD15 (GHG17), DD13 (Gen5 HP), DD15 (Gen5 HP), DD16 (GHG17, GHG21)			
Torque Limit [Lb-Ft]:	1650	1750		1850			2050		1850			2050			
Minimum FDR Limits (Max GCW): Minimum Auto-Approve	1400 (GCW < 80k)	1400 (GCW ≤ 80k) 1500 (80k < GCW ≤ 105k)	1400 (GCW ≤ 80k) 1500 (80k < GCW ≤ 105k)	1400 (GCW ≤ 80k) 1500 (80k < GCW ≤ 105k)	1500 (GCW ≤ 105k)	1500 (GCW ≤ 105k)	1500 (GCW ≤ 105k)	1500 (GCW ≤ 80k) 1500 (80k < GCW ≤ 105k)	1240 (GCW ≤ 80k)	1435 (80k < GCW ≤ 105k)	1435 (80k < GCW ≤ 110k)	1515 (GCW ≤ 140k)	1835 (140k < GCW ≤ 160k)		
Rear Transmission PTO Available:	Yes	Yes							Yes						
Side Transmission PTO Available:	No	No							Yes						
Major Transmission PTO Limits:	See DDC-ENG-MAN-001 on DTNAconnect.com	See DDC-ENG-MAN-001 on DTNAconnect.com							See DDC-ENG-MAN-001 on DTNAconnect.com						
Transmission Cooler:	Standard (AOC)	Standard (AOC)							Standard (AOC)						
Min. Startability:	16 ²	16 ²							16 ²						
Max Engine rpm @ Cruise:	1625 (GHG17 DD13)	1625 (GHG17 DD13/DD15), 1625 (Gen5 DD13 HP), 1625 (Gen5 DD15 HP)	1350 (Gen5 DD13 TCO)	1500 (Gen5 DD15 TCO)	1625 (GHG17 DD13/DD15), 1625 (Gen5 DD13 HP), 1625 (Gen5 DD15 HP)	1350 (Gen5 DD13 TCO)	1500 (Gen5 DD15 TCO)	1800 (GHG17/GHG21 DD16)	1350 (Gen5 DD13 TCO), 1500 (Gen5 DD15 TCO), 1625 (GHG17 DD13/DD15), 1625 (Gen5 DD13 HP & DD15 HP)	1350 (Gen5 DD13 TCO)	1500 (Gen5 DD15 TCO), 1625 (GHG17 DD13/DD15), 1625 (Gen5 DD13 HP & DD15 HP), 1800 (GHG17/GHG21 DD16)	1625 (GHG17 DD13/DD15), 1625 (Gen5 DD13 HP & DD15 HP), 1800 (GHG17/GHG21 DD16)			
Max Engine rpm @ Road Speed Limit:	1775 (GHG17 DD13)	1775 (GHG17 DD13/DD15), 1775 (Gen5 DD13 HP), 1775 (Gen5 DD15 HP)	1500 (Gen5 DD13 TCO)	1650 (Gen5 DD15 TCO)	1775 (GHG17 DD13/DD15), 1775 (Gen5 DD13 HP), 1775 (Gen5 DD15 HP)	1500 (Gen5 DD13 TCO)	1650 (Gen5 DD15 TCO)	1950 (GHG17/GHG21 DD16)	1500 (Gen5 DD13 TCO), 1650 (Gen5 DD15 TCO), 1775 (GHG17 DD13/DD15), 1775 (Gen5 DD13 HP & DD15 HP)	1500 (Gen5 DD13 TCO)	1650 (Gen5 DD15 TCO), 1775 (GHG17 DD13/DD15), 1775 (Gen5 DD13 HP & DD15 HP), 1950 (GHG17/GHG21 DD16)	1775 (GHG17 DD13/DD15), 1775 (Gen5 DD13 HP & DD15 HP), 1950 (GHG17/GHG21 DD16)			
Min. Axle Ratio (Recommended):	2.79	2.79 (≤ 80k GCW) 3.07 (> 80k GCW)		3.07			3.07		2.53			2.92		3.07	3.7
Max. Axle Ratio (Recommended):	---	3.42 (hard limit, not a recommendation)							---						

NOTES:

- 1) Previous revision was dated 01JUN22.
- 2) Startability requirement increases 1 point for every 1% max grade above 8%.
- 3) Load Profile indicates whether vehicle will be loaded 1 way or both ways of a trip/route.
- 4) 130k < GCW's ≤ 140k allowed with DT12-OA (OH1), but an additional DETROIT Powertrain review is required.

TM2020 PE - DT12 Transmission Limits Summary Spreadsheet_Refuse (A85-001)

Revision: 21NOV22 ¹

	DT12-DC / DV				DT12-DC / DV (RHD)	DT12-OC / OV				DT12-OC / OV (RHD)		
Chassis ² :	P4 Cascadia	P4 Cascadia, WST 57x	M2-112, 114SD, WST 47x	P4 Cascadia, WST 49x & 57x	WST 47x/48x/49x	P4 Cascadia	M2-112, 114SD, WST 47x & 49x	P4 Cascadia, WST 57x	P4 Cascadia, WST 49x & 57x	WST 47x (DD13 HP only), WST 48x/49x		
Domicile Location:	USA (incl. Puerto Rico) / Canada				Australia / South Africa	USA (incl. Puerto Rico) / Canada				Australia / South Africa		
Road Grades:	---				---	---				---		
Auto-Approve limit	8% ²				8% ²	8% ²				8% ²		
Max allowed	12%				12%	12%				12%		
(GCW-GVWR) Min. Diff:	20,000				20,000	20,000				20,000		
Load Profile ³ :	1 way / Both Ways ³				1 way / Both Ways ³	1 way / Both Ways ³				1 way / Both Ways ³		
Engine(s):	DD13 (GHG17), DD15 (GHG17)	DD13 (Gen5 TCO)	DD13 (Gen5 HP)	DD13 (Gen5 HP), DD15 (Gen5 HP)	DD13 (Gen5 HP)	DD13 (GHG17), DD15 (GHG17)	DD13 (Gen5 HP)	DD13 (Gen5 TCO)	DD15 (Gen5 HP), DD16 (GHG21)	DD13 (Gen5 HP)	DD16 (GHG21)	
Torque Limit [Lb-Ft]:	1850				1850	1850				2050	1850	2050
Minimum FDR Limits (Max GCW):	1185 (GCW ≤ 80k)				1185 (GCW ≤ 80k)	1575 (GCW ≤ 110k)				1575 (GCW ≤ 110k)		
Minimum Auto-Approve:	Yes				Yes	Yes				Yes		
Rear Transmission PTO Available:	Yes				Yes	Yes				Yes		
Side Transmission PTO Available:	Yes				Yes	Yes				Yes		
Major Transmission PTO Limits:	See DDC-ENG-MAN-001 on DTNAconnect.com				See DDC-ENG-MAN-001 on DTNAconnect.com	See DDC-ENG-MAN-001 on DTNAconnect.com				See DDC-ENG-MAN-001 on DTNAconnect.com		
Transmission Cooler:	Standard (AOC)				Standard (AOC)	Standard (AOC)				Standard (AOC)		
Min. Startability:	22 ²				22 ²	22 ²				22 ²		
Max Engine rpm @ Cruise:	1625 (GHG17 DD13/DD15)	1350 (Gen5 DD13 TCO)	1625 (Gen5 DD13 HP)	1625 (Gen5 DD13 HP & DD15 HP)	1625 (Gen5 DD13 HP)	1625 (GHG17 DD13/DD15)	1625 (Gen5 DD13 HP)	1350 (Gen5 DD13 TCO)	1625 (Gen5 DD15 HP), 1800 (GHG21 DD16)	1625 (Gen5 DD13 HP)	1800 (GHG21 DD16)	
Max Engine rpm @ Road Speed Limit:	1775 (GHG17 DD13/DD15)	1500 (Gen5 DD13 TCO)	1775 (Gen5 DD13 HP)	1775 (Gen5 DD13 HP & DD15 HP)	1775 (Gen5 DD13 HP)	1775 (GHG17 DD13/DD15)	1775 (Gen5 DD13 HP)	1500 (Gen5 DD13 TCO)	1775 (Gen5 DD15 HP), 1950 (GHG21 DD16)	1775 (Gen5 DD13 HP)	1950 (GHG21 DD16)	
Min. Axle Ratio (Recommended):	2.41				2.41	3.2				3.2		
Max. Axle Ratio (Recommended):	2.67				2.67	---				---		

NOTES:

- 1) Previous revision was dated 01JUN22.
- 2) Startability requirement increases 1 point for every 1% max grade above 8%.
- 3) Load Profile indicates whether vehicle will be loaded 1 way or both ways of a trip/route.

TM2020 PE - DT12 Transmission Limits Summary Spreadsheet_Logging (A85-012)

Revision: 21NOV22 ¹		DT12-OC / OV			DT12-OC / OV [RHD]		DT12-OD / OVX		DT12-OD / OVX [RHD]		
Chassis:	114SD & WST 47x [Gen5 DD13 HP]	WST 49x			WST 47x (DD13 HP only), WST 48x/49x		WST 49x		WST 48x/49x		
Domicile Location:	USA (incl. Puerto Rico) / Canada				Australia / South Africa		USA (incl. Puerto Rico) / Canada		Australia / South Africa		
Road Grades:	---				---		---		---		
Auto-Approve limit	8% ²				8% ²		8% ²		8% ²		
Max allowed	12%				12%		12%		8%		
(GCW-GVWR) Min. Diff:	20,000				20,000		20,000		20,000		
Load Profile ³ :	1 way only ³				1 way only ³		1 way only ³		1 way only ³		
Engine(s):	DD13 (Gen5 HP)	DD13 (Gen5 HP), DD15 (Gen5 HP), DD16 (GHG17, GHG21)	DD16 (GHG17, GHG21)	DD13 (Gen5 HP) DD16 (GHG21)	DD16 (GHG21)	DD15 (Gen5 HP) DD16 (GHG17, GHG21)	DD16 (GHG21)	DD16 (GHG21)	DD16 (GHG21)		
Torque Limit [Lb-Ft]:	1850			2050		2050		2050		2050	
Minimum FDR Limits (Max GCW):	1575 (GCW ≤ 140k)	1430 (GCW ≤ 110k)		1575 (GCW ≤ 140k)		1430 (GCW ≤ 110k) 1575 (110k < GCW ≤ 140k)		1550 (140,001 ≤ GCW ≤ 175k)		1700 (175k < GCW < 250k)	
Minimum Auto-Approve											
Rear Transmission PTO Available	Yes				Yes		Yes		Yes		
Side Transmission PTO Available:	Yes				Yes		Yes		Yes		
Major Transmission PTO Limits:	See DDC-ENG-MAN-001 on DTNAconnect.com				See DDC-ENG-MAN-001 on DTNAconnect.com		See DDC-ENG-MAN-001 on DTNAconnect.com		See DDC-ENG-MAN-001 on DTNAconnect.com		
Transmission Cooler:	Standard (AOC)				Standard (AOC)		Standard (AOC)		Standard (AOC)		
Min. Startability [SpecPro / Actual] :	18 ²				18 ²		[13 / 18 ²] (140,001 < GCW < 175k)		[11.5 / 16 ²] (175k < GCW < 250k)		
Max Engine rpm @ Cruise:	1625 (Gen5 DD13 HP)	1625 (Gen5 DD13 HP & DD15 HP), 1800 (GHG17/GHG21 DD16)		1800 (GHG17/GHG21 DD16)		1625 (Gen5 DD15 HP) 1800 (GHG17/GHG21 DD16)		1800 (GHG17/GHG21 DD16)			
Max Engine rpm @ Road Speed Limit:	1775 (Gen5 DD13 HP)	1775 (Gen5 DD13 HP & DD15 HP), 1950 (GHG17/GHG21 DD16)		1950 (GHG17/GHG21 DD16)		1775 (Gen5 DD15 HP) 1950 (GHG17/GHG21 DD16)		1950 (GHG17/GHG21 DD16)			
Min. Axle Ratio (Recommended):	3.2				3.2		3.42		4.1		
Max. Axle Ratio (Recommended):	---				---		---		---		

NOTES:

- 1) Previous revision was dated 01JUN22.
- 2) Startability requirement increases 1 point for every 1% max grade above 8%.
- 3) Load Profile indicates whether vehicle will be loaded 1 way or both ways of a trip/route.

**TM2020 PE - DT12 Transmission Limits Summary Spreadsheet
Construction (A85-011) and Farm (A85-009)**

Revision: 21NOV22 ¹

	DT12-OB / OHL	DT12-OC / OV			DT12-OC / OV [RHD]	DT12-OD / OVX	DT12-OD / OVX [RHD]
Chassis:	M2-112, 114SD, WST 47x/49x	114SD & WST 47x [Gen5]	WST 49x		WST 47x (DD13 HP only), WST 48x/49x	WST 49x	WST 48x/49x
Domicile Location:	USA [incl. Puerto Rico] / Canada	USA [incl. Puerto Rico] / Canada			Australia / South Africa	USA [incl. Puerto Rico] / Canada	Australia / South Africa
Terrain/Duty (between job sites):	AA5-002: 100% paved roads, AA5-006: 90% paved roads	---			---	---	---
Road Grades: Auto-Approve limit Max allowed	---	---			---	---	---
	8% ² 12%	8% ² 12%			8% ² 12%	8% ² 12%	8% ² 12%
Road Type:	AB5-001 smooth concrete/asphalt, AB5-002: rough maintained concrete/asphalt, AB5-003: maintained gravel or crushed rock	---			---	---	---
(GCW-GVWR) Min. Diff:	20,000	20,000			20,000	20,000	20,000
Load Profile ³ :	1-way only ³	1 way only ³			1 way only ³	1 way only ³	1 way only ³
Engine(s):	DD13 (GHG17, Gen5 HP)	DD13 (GHG17, Gen5 HP)	DD13 (Gen5 HP), DD15 (Gen5 HP), DD16 (GHG17, GHG21)	DD16 (GHG17, GHG21)	DD13 (Gen5 HP), DD16 (GHG21)	DD15 (Gen5 HP) DD16 (GHG17, GHG21)	DD16 (GHG21)
Torque Limit [Lb-Ft]:	1650	1850		2050	1850	2050	2050
Minimum FDR Limits (Max GCW): Minimum Auto-Approve	1430 (GCW ≤ 80k)	1430 (GCW ≤ 110k) 1565 (110k < GCW ≤ 140k)		1565 (GCW ≤ 140k)	1430 (GCW ≤ 110k) 1565 (110k < GCW ≤ 140k)	1565 (GCW ≤ 140k)	1755 (140,001 ≤ GCW ≤ 175k) 1755 (140,001 ≤ GCW ≤ 175k)
Rear Transmission PTO Available:	Yes	Yes			Yes	Yes	Yes
Side Transmission PTO Available:	No	Yes			Yes	Yes	Yes
Major Transmission PTO Limits:	See DDC-ENG-MAN-001 on DTNAconnect.com	See DDC-ENG-MAN-001 on DTNAconnect.com			See DDC-ENG-MAN-001 on DTNAconnect.com	See DDC-ENG-MAN-001 on DTNAconnect.com	See DDC-ENG-MAN-001 on DTNAconnect.com
Transmission Cooler:	Standard (AOC)	Standard (AOC)			Standard (AOC)	Standard (AOC)	Standard (AOC)
Min. Startability [SpecPro / Actual]:	[23 / 28 ²]	28 ² (GCW ≤ 110k), 20 ² (110k < GCW ≤ 140k)			28 ² (GCW ≤ 110k), 20 ² (110k < GCW ≤ 140k)	[14.5 / 20 ²]	[14.5 / 20 ²]
Max Engine rpm @ Cruise:	1625 (GHG17-DD13), 1625 (Gen5 DD13 HP)	1625 (GHG17-DD13), 1625 (Gen5 DD13 HP)	1625 (Gen5 DD13 HP), 1625 (Gen5 DD15 HP), 1800 (GHG17/GHG21 DD16)	1800 (GHG17/GHG21 DD16)	1625 (Gen5 DD13 HP), 1800 (GHG21 DD16)	1625 (Gen5 DD15 HP) 1800 (GHG17/GHG21 DD16)	1800 (GHG21 DD16)
Max Engine rpm @ Road Speed Limit:	1775 (GHG17-DD13), 1775 (Gen5 DD13 HP)	1775 (GHG17-DD13), 1775 (Gen5 DD13 HP)	1775 (Gen5 DD13 HP), 1775 (Gen5 DD15 HP), 1950 (GHG17/GHG21 DD16)	1950 (GHG17/GHG21 DD16)	1775 (Gen5 DD13 HP), 1950 (GHG21 DD16)	1775 (Gen5 DD15 HP) 1950 (GHG17/GHG21 DD16)	1950 (GHG21 DD16)
Min. Axle Ratio (Recommended):	3.2	3.2 (GCW ≤ 110k), 3.42 (110k < GCW ≤ 140k)		3.42	3.2 (GCW ≤ 110k), 3.42 (110k < GCW ≤ 140k)	3.42	3.7
Max. Axle Ratio (Recommended):	---	---			---	---	---

NOTES:

- 1) Previous revision was dated 01JUN22.
- 2) Startability requirement increases 1 point for every 1% max grade above 8%.
- 3) Load Profile indicates whether vehicle will be loaded 1 way or both ways of a trip/route.

TM2020 PE - DT12 Transmission Limits Summary Spreadsheet Wrecking (A85-014)

Revision: 21NOV22 ¹

	DT12-OC / OV	
Chassis:	114SD & WST 47x	WST 49x
Domicile Location:	USA (incl. Puerto Rico) / Canada	
Terrain/Duty (between job sites):	---	
Road Grades:	---	
Auto-Approve limit	8% ²	
Max allowed	12%	
Road Type:	---	
(GCW-GVWR) Min. Diff:	20,000	
Load Profile³:	1 way only ³	
Engine(s):	DD13 (Gen5 HP)	DD13 (Gen5 HP), DD15 (Gen5 HP), DD16 (GHG21)
Torque Limit [Lb-Ft]:	1850	2050
Minimum FDR Limits (Max GCW):	1430 (GCW ≤ 110k) 1565 (110k < GCW ≤ 140k)	1565 (GCW ≤ 140k)
Rear Transmission PTO Available:	Yes	
Side Transmission PTO Available:	Yes	
Major Transmission PTO Limits:	See DDC-ENG-MAN-001 on DTNAconnect.com	
Transmission Cooler:	Standard (AOC)	
Min. Startability [SpecPro / Actual] :	28 ² (GCW ≤ 110k), 20 ² (110k < GCW ≤ 140k)	
Max Engine rpm @ Cruise:	1625 (Gen5 DD13 HP)	1625 (Gen5 DD13 HP), 1625 (Gen5 DD15 HP), 1800 (GHG21 DD16)
Max Engine rpm @ Road Speed Limit:	1775 (Gen5 DD13 HP)	1775 (Gen5 DD13 HP), 1775 (Gen5 DD15 HP), 1950 (GHG21 DD16)
Min. Axle Ratio (Recommended):	3.2 (GCW ≤ 110k), 3.42 (110k < GCW ≤ 140k)	3.42
Max. Axle Ratio (Recommended):	---	

NOTES:

1) New Application Release

2) Startability requirement increases 1 point for every 1% max grade above 8%.

3) Load Profile indicates whether vehicle will be loaded 1 way or both ways of a trip/route.

TM2020 PE - DT12 Transmission Limits Summary Spreadsheet_Mining (A85-013), and Oil Field (A85-007)

	DT12-OC / OV		DT12-OC / OV [RHD]		DT12-OD / OVX		DT12-OD / OVX [RHD]	
Chassis ¹ :	1145D & WST 47x [DD13 only], WST 49x		WST 47x (DD13 HP only), WST 48x/49x		WST 49x		WST 48x/49x	
Domicile Location:	USA (incl. Puerto Rico) / Canada		Australia / South Africa		USA (incl. Puerto Rico) / Canada		Australia / South Africa	
Road Grades:	1---		1---		---		---	
Auto-Approve limit	8% ²		8% ²		8% ²		8% ²	
Max allowed	20%		20%		12%		12%	
(GCW-GVWR) Min. Diff:	20,000		20,000		20,000		20,000	
Load Profile ³ :	1 way only ³		1 way only ³		1 way only ³		1 way only ³	
Engine(s):	DD13 (Gen5 HP), DD15 (Gen5 HP), DD16 (GHG17, GHG21)	DD13 (Gen5 HP), DD15 (Gen5 HP), DD16 (GHG17, GHG21)	DD13 (Gen5 HP), DD16 (GHG21)		DD15 (Gen5 HP), DD16 (GHG17, GHG21)		DD16 (GHG21)	
Torque Limit [Lb-Ft] :	2050		2050		2050		2050	
Minimum FDR Limits (Max GCW): Minimum-Auto-Approve	1610 (GCW < 110k)	1870 (110k < GCW ≤ 140k)	1610 (GCW ≤ 110k) 1870 (110k < GCW ≤ 140k)		1735 (140,001 ≤ GCW ≤ 175k)	1820 (175k < GCW < 250k)	1735 (140,001 ≤ GCW ≤ 175k)	1820 (175k < GCW < 250k)
Rear Transmission PTO Available:	Yes		Yes		Yes		Yes	
Side Transmission PTO Available:	Yes		Yes		Yes		Yes	
Major Transmission PTO Limits:	See DDC-ENG-MAN-001 on DTNAconnect.com		See DDC-ENG-MAN-001 on DTNAconnect.com		See DDC-ENG-MAN-001 on DTNAconnect.com		See DDC-ENG-MAN-001 on DTNAconnect.com	
Transmission Cooler	Standard (AOC)		Standard (AOC)		Standard (AOC)		Standard (AOC)	
Min. Startability [SpecPro / Actual] :	25 ²		25 ²		[16.5 / 23 ²]	[13 / 18 ²]	[16.5 / 23 ²]	[13 / 18 ²]
Max Engine rpm @ Cruise:	1625 (Gen5 DD13 HP & DD15 HP), 1800 (GHG17/GHG21 DD16)	1625 (Gen5 DD13 HP & DD15 HP), 1800 (GHG17/GHG21 DD16)	1625 (Gen5 DD13 HP), 1800 (GHG21 DD16)		1625 (Gen5 DD15 HP), 1800 (GHG17/GHG21 DD16)		1800 (GHG21 DD16)	
Max Engine rpm @ Road Speed Limit:	1775 (Gen5 DD13 HP & DD15 HP), 1950 (GHG17/GHG21 DD16)	1775 (Gen5 DD13 HP & DD15 HP), 1950 (GHG17/GHG21 DD16)	1775 (Gen5 DD13 HP), 1950 (GHG21 DD16)		1775 (Gen5 DD15 HP), 1950 (GHG17/GHG21 DD16)		1950 (GHG21 DD16)	
Min. Axle Ratio (Recommended):	3.7	3.8	3.7	3.8	4.1	4.3	4.1	4.3
Max. Axle Ratio (Recommended):	---		---		---		---	

NOTES:

1) Previous revision was dated 01JUN22.

2) Startability requirement increases 1 point for every 1% max grade above 8%.

3) Load Profile indicates whether vehicle will be loaded 1 way or both ways of a trip/route.

DT12 Naming Nomenclature

DTNA (CW18 2020)	DTNA (pre-CW18, 2020)	DETROIT	Description
--	DB	DB1	DT12-DB Classic
DHL	DH1-8	DB2	Lightweight On-Highway Direct Drive (MY2016 CO2)
--	OB	OB1	DT12-OB Classic
OHL	OH1-8	OB2	Lightweight On-Highway Direct Drive (MY2016 CO2)
--	DA	DA1	DT12-DA Classic
DH	DH1	DA2	On-Highway Direct Drive (MY2016 CO2)
DH	DH1	DA3	On-Highway Direct Drive (MY2017 CO2)
--	OA	OA1	DT12-OA Classic
OH	OH1	OA2	DT12-OA CO2 MY2016
OH	OH1	OA3	DT12-OA CO2 MY 2017
DHE	DH2	DC1	Efficient On-Hwy Direct Drive TM2020
DV	DV2	DC1	Vocational Direct Drive TM2020
OHE	OH2	OC1	Efficient On-Hwy Overdrive TM2020
OV	OV2	OC1	Vocational Overdrive TM2020
OVX	OE2	OD1	Vocational Extreme Overdrive TM2020

Engine Naming Nomenclature (In DT12 Limit Spreadsheet)

Emissions Reference	Description of Engine(s)
GHG17	DD13, DD15, and DD16 engines certified for GHG17 with 1US and 2V2 ATS's.
Gen5	New DD13 & DD15 TCO and HP engine variants with GATS 2.0 Aftertreatment.
GHG21	Recalibrated DD16 engine introduced in MY2022 with GATS 2.0 Aftertreatment.

Vehicle Chassis Nomenclature

Chassis	Vehicle Model #	Domicile
P3 - 113	PX113	US / Canada
P3 - 125	PX125	US / Canada
P4 -116	PE116 PN116 (RHD)	US / Canada Australia / New Zealand
P4 - 126	PT126 PJ126 PL126 (RHD)	US / Canada 45x - US/Canada Australia/ New Zealand
114SD	CT114 CT140 (MY2023?)	US/Canada Peru
WST 4700	WD110 (legacy)	US / Canada
WST 47x	WF111 WK111 (RHD)	US/Canada Australia, New Zealand, South Africa
WST 48x	WL113 (RHD)	Australia, New Zealand, South Africa
WST 49X	WJ121 WM121 (RHD)	US / Canada Australia / New Zealand
WST 5700	WE126 (legacy)	US / Canada
WST 57X	WH126 WN126	US / Canada 45x 57x - US/Canada