

## APPENDIX I TO PART 1039.—NONROAD COMPRESSION-IGNITION (CI) STEADY-STATE CYCLE FOR CONSTANT-SPEED ENGINES—Continued

Mode No.	Engine speed	Torque <sup>1</sup>	Minimum time in mode (minutes)	Weighting factors
5 .....	Maximum test .....	10	3.0	0.10

<sup>1</sup> The percent torque is relative to the maximum torque at maximum test speed.

## Appendix II to Part 1039—[Reserved]

## APPENDIX III TO PART 1039.—NONROAD COMPRESSION-IGNITION (CI) STEADY-STATE CYCLE FOR VARIABLE-SPEED ENGINES WITH MAXIMUM POWER BELOW 19 kW

Mode No.	Engine speed	Observed torque <sup>1</sup>	Minimum time in mode (minutes)	Weighting factors
1 .....	Maximum test speed .....	100	3.0	0.09
2 .....	Maximum test speed .....	75	3.0	0.20
3 .....	Maximum test speed .....	50	3.0	0.29
4 .....	Maximum test speed .....	25	3.0	0.30
5 .....	Maximum test speed .....	10	3.0	0.07
6 .....	Idle .....	0	3.0	0.05

<sup>1</sup> The percent torque is relative to the maximum torque at maximum test speed.

## APPENDIX IV TO PART 1039.—NONROAD COMPRESSION-IGNITION (CI) STEADY-STATE CYCLE FOR VARIABLE-SPEED ENGINES WITH MAXIMUM POWER AT OR ABOVE 19 kW

Mode No.	Engine speed	Observed torque <sup>1</sup>	Minimum time in mode (minutes)	Weighting factors
1 .....	Maximum test speed .....	100	3.0	0.15
2 .....	Maximum test speed .....	75	3.0	0.15
3 .....	Maximum test speed .....	50	3.0	0.15
4 .....	Maximum test speed .....	10	3.0	0.10
5 .....	Intermediate test speed .....	100	3.0	0.10
6 .....	Intermediate test speed .....	75	3.0	0.10
7 .....	Intermediate test speed .....	50	3.0	0.10
8 .....	Idle .....	0	3.0	0.15

<sup>1</sup> The percent torque is relative to the maximum torque at the given engine speed.

## APPENDIX V TO PART 1039.—NONROAD COMPRESSION-IGNITION (CI) TRANSIENT CYCLE FOR CONSTANT-SPEED ENGINES

## APPENDIX V TO PART 1039.—NONROAD COMPRESSION-IGNITION (CI) TRANSIENT CYCLE FOR CONSTANT-SPEED ENGINES—Continued

## APPENDIX V TO PART 1039.—NONROAD COMPRESSION-IGNITION (CI) TRANSIENT CYCLE FOR CONSTANT-SPEED ENGINES—Continued

Time (s)	Normalized speed (percent)	Normalized torque (percent)	Time (s)	Normalized speed (percent)	Normalized torque (percent)	Time (s)	Normalized speed (percent)	Normalized torque (percent)
1 .....	58	5	16 .....	58	5	31 .....	93	20
2 .....	58	5	17 .....	58	5	32 .....	94	20
3 .....	58	5	18 .....	58	5	33 .....	94	22
4 .....	58	5	19 .....	58	5	34 .....	94	23
5 .....	58	5	20 .....	58	5	35 .....	93	23
6 .....	58	5	21 .....	65	8	36 .....	93	25
7 .....	58	5	22 .....	72	11	37 .....	93	24
8 .....	58	5	23 .....	79	14	38 .....	94	23
9 .....	58	5	24 .....	86	17	39 .....	93	21
10 .....	58	5	25 .....	93	20	40 .....	94	21
11 .....	58	5	26 .....	93	20	41 .....	96	22
12 .....	58	5	27 .....	93	20	42 .....	95	19
13 .....	58	5	28 .....	93	20	43 .....	95	14
14 .....	58	5	29 .....	93	20	44 .....	95	10
15 .....	58	5	30 .....	93	20	45 .....	93	50