



**Vehicle Attachment 6 –  
International Truck Tractor Transmission Gear Speeds**

(4 pages)

## Sawtooth Curve Data Sheet

### 10 Speed Transmission

This program is set up to calculate the sawtooth chart data and display the chart automatically. It is set up as a three tab program; the first tab is the current one or the data entry sheet with instructions. Another tab labeled "**10 spd data**" will provide a nicely formatted presentation information. A third tab labeled "**10 spd chart**" will show the finished chart.

Simply enter the requested information on the first sheet in the specified cell and the data presentation sheet and chart will automatically be prepared.  
**Important:** Make sure that only tab 1 sawtooth data is open while entering data on the input sheet.

When the data has been entered completely, then open up tabs one thru three to perform a print preview or final print command.

**Note:** This program will calculate and plot a 5% overrun in high gear.

#### Product Information

Enter File Name (optional) E17

Enter Model E18

Enter VIN E19

Enter GVWR (optional) E20

Indianapolis Propane Tanker

9200i

2HSCESBRX6C314334

52,000

#### Engine Information

Make/Model D23

Rated RPM D24

CATERPILLAR C13 - 430 HP

2100

#### Rear Axle Information

Make/Model D27

Axle Ratio D28

Merritor RT-40-145A

3.90

#### Tire Information

Make/Model D31

Size D32

Revolutions/Mile D33

Goodyear - G372 LHD

11 R 22.5

494

#### Transmission Information

Make/Model D36

Number of Speeds D37

Gear Ratios D39-D48

Fuller FRO-16210C

10 SPEED

1st 12.69

2nd 9.29

3rd 6.75

4th 4.90

5th 3.62

6th 2.59

7th 1.90

8th 1.38

9th 1.00

10th 0.74

**9200i**  
**2HSCESBRX6C314334**  
**Indianapolis Propane Tanker**

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G.V.W.R. RATING 52,000 lbs.

ENGINE: CATERPILLAR C13 - 430 HP  
 2100 R.P.M.

REAR AXLE: Merritor RT-40-145A  
 3.9 RATIO

TIRES: Goodyear - G372 LHD  
 11 R 22.5  
 Rev/Mile 494

TRANSMISSION: Fuller FRO-16210C  
 10 SPEED

**GEAR SPEED CALCULATIONS**

<u>GEAR</u>	<u>TRANS.</u>	<u>RR AXLE</u>	<u>OVERALL</u>	<u>RPM</u>	<u>SPEED</u>
				0	0
1st	12.69	3.9	49.51	1050	2.58
				2100	5.15
2nd	9.29	3.9	36.25	1538	5.15
				2100	7.04
3rd	6.75	3.9	26.33	1525	7.04
				2100	9.69
4th	4.90	3.9	19.11	1524	9.69
				2100	13.35
5th	3.62	3.9	14.12	1551	13.35
				2100	18.07
6th	2.59	3.9	10.10	1502	18.07
				2100	25.25
7th	1.90	3.9	7.41	1541	25.25
				2100	34.42
8th	1.38	3.9	5.38	1525	34.42
				2100	47.39
9th	1.00	3.9	3.90	1522	47.39
				2100	65.40
10th	0.74	3.9	2.89	1554	65.40
				2100	88.38
				2205	92.80

**9200i**

**2HSCESBRX6C314334**

