



PM B
5/6/85
KWR
[Handwritten signature]

1123 S.E. MILITARY DRIVE • P. O. BOX 14147 • SAN ANTONIO, TEXAS 78214 • TELEPHONE (512) 923-4317 • TELEX 76-7429

May 1, 1985

ORIGINAL

01-22-N11B-1857

Administrator
National Highway Traffic
Safety Administration
400 Seventh Street, S.W.
Washington, D. C. 20590

ATTN: VIN Coordinator

Dear Sir:

In response to your recent telephone call during which two omissions on our proposed VIN identifier, i.e. lack of overall length and number of axle coding, please refer to the enclosed revised code/decode sheet.

You will note that we were able to accomplish this without a major change to the original submittal.

Sincerely,

George W. Palmer
Chief Engineer

GWP:ch
Encs.

VEHICLE IDENTIFICATION NUMBER
CALCULATIONS - INSTRUCTIONS

The following procedure must be used to determine, assign and affix a Vehicle Identification Number (VIN) on each trailer (Transfer type and Lo-Boye) manufactured by the PAK-MOR Manufacturing Co.

Refer to ENG 385026, Sheet 2 of 2, to work-up sheet for the VIN Identifier.

- Step 1 - Enter the appropriate Order ID Number.
- Step 2 - Using the Sales Order and the information contained on the upper portion of the Work Sheet, enter the appropriate designations for the following:
- A. Trailer Type
 - B. Size
 - C. Rear Axle Ratings
 - D. Hydraulic Power Source
 - E. Type of Loading
 - F. Plant of Manufacturer
 - G. Model Year

Entries to be made in the row labeled * VIN.

- Step 3 - Enter the sequential number designation of the particular trailer unit. Start number sequence on January 1, each year.
- Step 4 - Value Designation. Transfer the numerical value for each number previously entered in the VIN row to the VALUE row. Select from the VALUE table, in the lower left corner of the worksheet, the numerical value for each alphabetic character previously entered on the VIN row, and enter that number on the VALUE row.
- Step 5 - Multiply each number entered in the VALUE row by the multiplier directly below it. Enter the product on the PRODUCT row. (Note any number multiplied by 0 = 0)
- Step 6 - Add all the numbers in the PRODUCT row to obtain a sum. Enter that sum in the space provided at the right end of the product row, and in the space provided at the left of the form.
- Step 7 - Divide the sum arrived at in Step 5 by eleven (11), and enter the whole number in the space provided and the first two digits of the remainder in the space titled DECIMAL.
- Step 8 - Compare and match the decimal remainder with the numerical values noted in the lower right corner of the worksheet. The number or letter "X" that corresponds is the CHECK DIGIT.

Note--The VIN identifier must be located on a permanent structure of the trailer, and be affixed in a manner such that it will be difficult to remove, replace or alter with out detection. The VIN identifier digits must be legible and have a minimum height of 4.750 mm (3/16").

Characters 1, 2, 3, 12, 13, and 14 have been assigned to PAK-MOR by the Society of Automotive Engineers (SAE).

VEHICLE IDENTIFICATION NUMBER

CALCULATION SHEET

PAK-MOR

WMI	VEHICLE DISCRIPTOR SECTION							CHECK DIGIT	MODEL YEAR	PLANT	ASSIGNED BY SAE	SEQUENTIAL NUMBER				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	P	9									0	9	2			

PLANT OF MANUFACTURER	1 - SAN ANTONIO
	2 - DUFFIELD
MODEL YEAR	F - 1985
	G - 1986
	H - 1987
	J - 1988
	K - 1989
	L - 1990

CHARACTER
 VIN - BASIC

TRAILER TYPE	SIZE	RATING
T - TRANSFER TRAILER		
L - LOBOYE TRAILER		
1 - 75 CUYD-OL 40FT REAR AXLE	1 - 50,000LBS TANDEN AXLE	
2 - 65 CUYD-OL 40 FT	2 - 44,000LBS TANDEN AXLE	
3 - 60 CUYD-OL 40 FT	3 - 38,000LBS TANDEN AXLE	
4 - 50 CUYD-OL 35 FT	4 - 20,000LBS SINGLE AXLE	
5 - 45 CUYD-OL 40FT10IN		
6 - 38 CUYD-OL 40FT10IN		
7 - 32 CUYD-OL 35FT10IN		
8 - 28 CUYD-OL 32FT10IN		

OL - OVERALL LENGTH

HYDRAULIC POWER SOURCE

1 - SELF-CONTAINED ENGINE	R - REAR
2 - WETLINE	T - TOP
3 - S/C ENGINE W/WETLINE	B - TOP AND REAR
4 - WETLINE W/VALVE ON TRACTOR	S - SIDE
	X - RETREIVER

SEE BELOW

WMI - WORLD MANUFACTURER IDENTIFER
 SAE - SOCIETY OF AUTOMOTIVE ENGINEERS

CHECK DIGIT CALCULATIONS

CHECK DIGIT

CHARACTER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
*VIN	1	P	9									0	9	2			
VALUE	1	7	9									0	9	2			
MULTIPLIER (X)	8	7	6	5	4	3	2	10	0	9	8	7	6	5	4	3	2
PRODUCT (ADD →)	8	49	54									0	54	10			

SEE BELOW = [] SUM

[] SUM = [] WHOLE NUMBER . [] DECIMAL

11 = [] . []

A = 1	G = 7	N = 5	V = 5
B = 2	H = 8	P = 7	W = 6
C = 3	J = 1	R = 9	X = 7
D = 4	K = 2	S = 2	Y = 8
E = 5	L = 3	T = 3	Z = 9
F = 6	M = 4	U = 4	

IF DECIMAL IS	CHECK DIGIT	IF DECIMAL IS	CHECK DIGIT
.09 =	1	.54 =	0
.18 =	2	.63 =	0
.27 =	3	.72 =	0
.36 =	4	.81 =	0
.45 =	5	.90 =	0

00 = 3