B 7/28/88
KWR

BOB BAXTER WELDING, INC.

405 W. Presqueisle Street. Philipsburg, PA 16866
(814)342-2382

ORIGINAL
8pgs

June 29, 1988

01-22-N11B-3041

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

To whom it may concern:

Please find attached the information needed to decipher the characters we plan to use when constructing VIN numbers for the trailers we will be manufacturing.
If there are any problems with this information , please contact Debbie at (814) 342-2382.

Thank you,

Deborah A. Lamison

Deborah A. Lamison
Secretary
Bob Baxter Welding, Inc.

enclosure/RLB/dal

Registration authority for ISO 3780

The Society of Automotive Engineers has been appointed by ISO to act as registration authority for the implementation of International Standard ISO 3780.

SAE The Engineering Society For Advancing Mobility Land Sea Air and Space®

400 COMMONWEALTH DRIVE, WARRENDALE, PA 15096-0001 U.S.A.
(412) 776-4841 FAX NO. (412) 776-5760

CABLE ADDRESS: SOCAUTOENG, PA
TELEX NO. 866-355

June 24, 1988

Ms. Debbie Lamison
Bob Baxter Welding
405 W. Presque Isle St.
Phillipsburg, PA 16866

Dear Ms. Lamison:

This letter confirms our telephone conversation of June 15, 1988 regarding the assignment of a World Manufacturer (Maker) Identifier (WMI) Code. As the agent of the NHTSA for the assignment of manufacturer identifiers pursuant to CFR 49 Part 565.5C Vehicle Identification Number (VIN), we hereby confirm the following code:

Bob Baxter Welding
405 W. Presque Isle St.
Phillipsburg, PA 16866
United States

1 B-9 with the 3rd, 4th, and 5th characters of the Vehicle Indicator Section to be 1 8 3

Trailers

Sincerely,

Marilyn Hasenflu
WMI Coordinator

/mh

Enclosure

cc: A. Burgett
B. P. Hickey

Information for VIN numbers for Bob Baxter Welding, Inc.

Section # 1 -- World Manufacturer Identifier

Digits # 1,2,3

Assigned by S.A.E.

(see attached conformation from S.A.E.)

Section # 2 -- Vechicle Description

Digits # 4,5,6,7,8

Digit # 4 -- Type of Trailer

D -- Dump Trailer

F -- Flatbed Trailer

B -- Box Trailer

Digit # 5 -- Series/Body Type

1 - Frame

2 - Frameless

Digit # 6 & 7 -- Lenght in feet

Digit # 8 -- Number of Axles

1 - single axle

2 - tandum axle

3 - tri-axle

CHECK DIGIT CALCULATIONS

CHECK DIGIT

CHARACTER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ACTUAL VIN	1	B	9	D	1	4	0	1		I	P	1	8	3	0	0	1
CONVERTED VALUES from TABLE A (below)	1	2	9	4	1	4	0	1	0	1	7	1	8	3	0	0	1
MULTIPLIER (X)	8	7	6	5	4	3	2	10	0	9	8	7	6	5	4	3	2
PRODUCT (Value x multiplier)	8	14	54	20	4	12	0	10	0	9	56	7	48	15	0	0	2

= 259 SUM OF PRODUCTS

259 SUM OF PRODUCTS / DIVIDED BY 11 = WHOLE NUMBER 23 . DECIMAL 54 ⟺

ALPHABETIC TO NUMERIC CONVERSION VALUES

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	

TABLE A

IF DECIMAL IS	CHECK DIGIT IS	IF DECIMAL IS	CHECK DIGIT IS
.09	= 1	.54	= 6
.18	= 2	.63	= 7
.27	= 3	.72	= 8
.36	= 4	.81	= 9
.45	= 5	.90	= X
		.00	= 0

TABLE B

NOTE: Numerical characters from actual VIN are used in check digit calculation. Alphabetical characters are converted to numerical, according to TABLE A values

4

Section # 3 -- Check Digit

Digit # 9

This digit is calculated for each vehicle per instructions contained in Table # III , Table # IV , Table # V and the additional information supplied.

Section # 4 -- Manufacturer Identifier & Production Sequence

Digits #10, 11, 12,13,14,15,16,17

Digit # 10 - Model Year

See Table # VI

Digit # 11 - Plant Location

P - Philipsburg

Digit # 12, 13, 14 assigned by S.A.E.

Digit # 12 - 1

Digit # 13 - 8

Digit # 14 - 3

Digit # 15, 16, 17

Production Seguence will begin at 001 and continue consecutively.

Section	#1			#2					#3	#4							
Section Title	W.M.I.			Vehicle Description Section					Check Digit	Model Year	Plant	Manufacturer Identifier			Sequential Production Number		
Character	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
	1	B	9	D	1	4	0	1	6	J	P	1	8	3	0	0	1

W.M.I. (assigned by SAE)

Type of Trailer

Series / Body Type

Length in Feet

Number of Axles

Production Sequence

Manufacturer Identifier from SAE

Plant Location

Model Year

SAMPLE VIN # ⟶ for a 40 ft, framed, single axle dump trailer. Manufactured on June 1, 1988. at our plant in Philipsburg

Check Digit Calculation is Attached.

Table VI

Year	Code	Year	Code
1980	A	1997	V
1981	B	1998	W
1982	C	1999	X
1983	D	2000	Y
1984	E	2001	1
1985	F	2002	2
1986	G	2003	3
1987	H	2004	4
1988	J	2005	5
1989	K	2006	6
1990	L	2007	7
1991	M	2008	8
1992	N	2009	9
1993	P	2010	A
1994	R	2011	B
1995	S	2012	C
1996	T	2013	D

(c) The third section shall consist of one character which occupies position nine (9) in type VIN. This section shall be the check digit whose purpose is to provide a means for verifying the accuracy of any VIN transcription. After all other characters in VIN have been determined by the manufacturer, the check digit shall be calculated by carrying out the mathematical computation specified in paragraphs (c) (1) through (4) of this section.

(1) Assign to each number in the VIN its actual mathematical value and assign to each letter the value specified for it in Table III.

Table III.—Assigned Values

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

(2) Multiply the assigned value for each character in the VIN by the position weight factor specified in Table IV.

Table IV.—VIN Position and Weight Factor

1st	8	10th	9
2d	7	11th	8
3d	6	12th	7
4th	5	13th	6
5th	4	14th	5
6th	3	15th	4
7th	2	16th	3
8th	10	17th	2
9th (check digit)	0		

(3) Add the resulting products and divide the total by 11.

(4) The numerical remainder is the check digit. If the remainder is 10 the letter "X" shall be used to designate the check digit. The correct numerical remainder zero through nine (0–9) or the letter "X" shall appear in VIN position nine (9).

(5) A sample check digit calculation is shown in Table V.

Table V.—Calculations of a Check Digit

VIN Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Sample VIN	1	G	4	A	H	5	9	H	..	5	G	1	1	8	3	4	1
Assigned Value	1	7	4	1	8	5	9	8	..	5	7	1	1	8	3	4	1
Multiply by weight factor	8	7	6	5	4	3	2	10	0	9	8	7	6	5	4	3	2

Add products 8+49+24+5+32+15+18+80+0+45+56+7+6+40+12+12+2=411

Divide sum of products by 11:411/11 = $37^{4}/_{11}$

Remainder is check digit #4 (insert in VIN position nine (9)