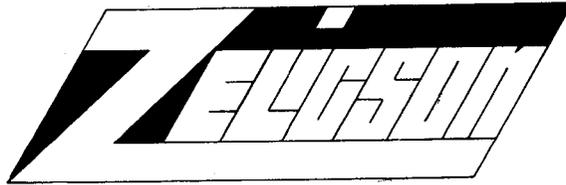


MAILING ADDRESS
ZELIGSON COMPANY
P.O. Box 581777
Tulsa, Oklahoma 74158



A SUBSIDIARY OF BOLT TECHNOLOGY CORPORATION

OVER 35 YEARS OF CUSTOM PROCESSING
MILITARY ALL WHEEL DRIVE TRUCKS AND PARTS
FRONT & TANDEM DRIVE CONVERSIONS

B 10/9/85 pdg
PLANT AND OFFICE:
6707 East Admiral Place
Tulsa, Oklahoma 74115
(918) 835-4477

A large, stylized handwritten signature or set of initials, possibly 'JSP', written in black ink.

01-22-NIB-2072

March 15, 1985

ORIGINAL

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

Attention: VIN Coordinator

Gentlemen:

As required by CFR 49, Part 571.115, S6.3 we are submitting the information necessary to decipher the characters contained in our vehicle identification numbers.

We enclose the following:
VIN Work Sheet, our no. ZD878, four sheets

Sample calculations for a truck, 8x8 drive with conventional cab, Detroit Diesel 6V92TTAC engine, air brakes and 70,000 lb. GVWR, completed in 1985

Sample calculations for a trailer for geophysical energy source, forty feet long with tandem axles, completed in 1985. Thank you.

Sincerely yours,

ZELIGSON COMPANY

Melvin E. Putnam
President

MEP/plh
Encl.

Zeligson - VIN Worksheet

<u>CHARACTER</u>	<u>VIN</u>	<u>VALUE</u>	<u>WEIGHT</u>	<u>PROD</u>	<u>CHARACTER</u>
1. [Manufacturer's Identifier]	1	1 X	8	= 8	1
2. [Assigned by SAE]	Z	9 X	7	= 63	2
3. [Same for all VIN]	9	9 X	6	= 54	3
4. Vehicle type, See table 'A'	---	---	5	= ---	4
5. Cab - See table 'B' (Except Trailer)	---	---	4	= ---	5
6. Engine - See table 'C' (Except Trailer)	---	---	3	= ---	6
7. Brakes-Air = 1, Hyd=2 (Except Trailer)	---	---	2	= ---	7
8. GVW - (Except Trailer) (For Trailers - See App. I)	---	---	10	= ---	8
CHECK DIGIT - See Below	---	---	0	= 0	---
9. Model year - table from Standard	---	---	9	= ---	9
10. Always 'T' for Tulsa	T	3 X	8	= 24	10
11. [Identifier - Assigned]	1	1 X	7	= 7	11
12. [by SAE - Same for]	0	0 X	6	= 0	12
13. [all VIN]	6	6 X	5	= 30	13
14. [Sequentially assigned]	---	---	4	= ---	14
15. [by Zeligson]	---	---	3	= ---	15
16. [Company]	---	---	2	= ---	16

Check Digit

ENTER VALUE FROM TABLE IV, STANDARD 115
 MULTIPLY VALUE X WEIGHT FACTOR
 ADD THE PRODUCTS AND DIVIDE BY 11
 REMAINDER IS CHECK DIGIT. (IF REMAINDER
 IS 10, CHECK DIGIT IS 0)

*Per Mr. Putman on 10/9
 Check digit is a X.
 pdg 10/9/85*

TABLE IV

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	

TABLE II

Year	Code
1980	A
1981	B
1982	C
1983	D
1984	E
1985	F
1986	G
1987	H
1988	J
1989	K
1990	L
1991	M
1992	N
1993	P
1994	R
1995	S
1996	T
1997	V
1998	W
1999	X
2000	Y

GVW

Class A: Not greater than 3,000 pounds.
 Class B: 3,001-4,000 pounds.
 Class C: 4,001-5,000 pounds.
 Class D: 5,001-6,000 pounds.
 Class E: 6,001-7,000 pounds.
 Class F: 7,001-8,000 pounds.
 Class G: 8,001-9,000 pounds.
 Class H: 9,001-10,000 pounds.
 Class I: 10,001-14,000 pounds.
 Class J: 14,001-16,000 pounds.
 Class K: 16,001-19,500 pounds.
 Class L: 19,501-26,000 pounds.
 Class M: 26,001-33,000 pounds.
 Class N: 33,001 pounds and over.

VIN WORKSHEET

ZELIGSON COMPANY - VIN

TABLE 'A' VEHICLE TYPE CODE (4th CHARACTER)

<u>TYPE</u>	<u>CODE</u>
G-744 - 4x4 drive	A
G-744 - 4x2 drive	B
G-744 - 6x6 drive	C
G-744 - 6x4 drive	D
G-744 - 8x8 drive	E
G-742 - 4x4 drive	F
G-742 - 6x6 drive	G
TRAILER	T (See App. I)

TABLE 'B' CAB CODE (5th CHARACTER)

<u>TYPE</u>	<u>CODE</u>
MILITARY	1
ONE MAN	2
CONVENTIONAL, STANDARD WIDTH	3
CONVENTIONAL, FOUR MAN WIDTH	4
LOW FORWARD CAB	5

ZELIGSON COMPANY - VIN

TABLE 'C' - ENGINE CODE (6th CHARACTER)

<u>CHARACTER</u>	<u>TYPE</u>	<u>NO. CYLS</u>	<u>DISPLACEMENT</u>	<u>H.P.</u>
A	DIESEL	8	636 cu. in.	230
B	DIESEL	6	638 cu. in.	270
C	DIESEL	6	855 cu. in.	365
D	DIESEL	8	500 cu. in.	205
E	DIESEL	6	426 cu. in.	238
F	DIESEL	6	552 cu. in.	315
G	DIESEL	8	736 cu. in.	400
H	DIESEL	6	466 cu. in.	205

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APPENDIX I - Trailer VIN

When VIN is for a trailer (instead of truck) use the letter 'T' for the fourth character and use the following to determine the 5th, 6th, 7th and 8th characters.

The 5th character denotes trailer type as follows:

<u>Character</u>	<u>Type</u>
'Z'	Geophysical Energy Source

The 6th and 7th characters are the overall trailer length in feet

The 8th character denotes the axle configuration as follows:

<u>Character</u>	<u>Axle Configuration</u>
'J'	Tandem axles - semi

Zeligson - VIN Worksheet

CHARACTER	VIN	VALUE	WEIGHT	PROD	CHARACTER
1. [Manufacturer's Identifier]	1	1 X	8	= 8	1
2. [Assigned by SAE]	Z	9 X	7	= 63	2
3. [Same for all VIN]	9	9 X	6	= 54	3
4. Vehicle type, See table 'A'	<u>T</u>	<u>3</u> X	5	= <u>15</u>	4
5. Cab - See table 'B' (Except Trailer)	<u>Z</u>	<u>9</u> X	4	= <u>36</u>	5
6. Engine - See table 'C' (Except Trailer)	4 <u>4</u>	<u>4</u> X	3	= <u>12</u>	6
7. Brakes-Air = 1, Hyd=2 (Except Trailer)	<u>0</u>	<u>0</u> X	2	= <u>0</u>	7
8. GVW - (Except Trailer) (For Trailers - See App. I)	<u>J</u>	<u>1</u> X	10	= <u>10</u>	8
CHECK DIGIT - See Below	<u>9</u>	X	0	= 0	
9. Model year - table from Standard	<u>F</u>	<u>6</u> X	9	= <u>54</u>	9
10. Always 'T' for Tulsa	T	3 X	8	= 24	10
11. [Identifier - Assigned]	1	1 X	7	= 7	11
12. [by SAE - Same for]	0	0 X	6	= 0	12
13. [all VIN]	6	6 X	5	= 30	13
14. [Sequentially assigned]	<u>0</u>	<u>0</u> X	4	= <u>0</u>	14
15. [by Zeligson]	<u>0</u>	<u>0</u> X	3	= <u>0</u>	15
16. [Company]	<u>2</u>	<u>2</u> X	2	= <u>4</u>	16

$317 \div 11 = 28 \frac{9}{11}$

Check Digit
 ENTER VALUE FROM TABLE IV, STANDARD 115
 MULTIPLY VALUE X WEIGHT FACTOR
 ADD THE PRODUCTS AND DIVIDE BY 11
 REMAINDER IS CHECK DIGIT. (IF REMAINDER
 IS 10, CHECK DIGIT IS 0)

*Per Mr. Putnam
 Check digit is 0 X
 10/9/85 pdg*

TABLE IV

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	

TABLE II

Year	Code
1980	A
1981	B
1982	C
1983	D
1984	E
1985	F
1986	G
1987	H
1988	J
1989	K
1990	L
1991	M
1992	N
1993	P
1994	R
1995	S
1996	T
1997	V
1998	W
1999	X
2000	Y

GVW

- Class A: Not greater than 3,000 pounds.
- Class B: 3,001-4,000 pounds.
- Class C: 4,001-5,000 pounds.
- Class D: 5,001-6,000 pounds.
- Class E: 6,001-7,000 pounds.
- Class F: 7,001-8,000 pounds.
- Class G: 8,001-9,000 pounds.
- Class H: 9,001-10,000 pounds.
- Class 3: 10,001-14,000 pounds.
- Class 4: 14,001-16,000 pounds.
- Class 5: 16,001-19,500 pounds.
- Class 6: 19,501-26,000 pounds.
- Class 7: 26,001-33,000 pounds.
- Class 8: 33,001 pounds and over.

Zeligson - VIN Worksheet

CHARACTER	VIN	VALUE	WEIGHT	PROD	CHARACTER
1. [Manufacturer's Identifier]	1	1 X	8	= 8	1
2. [Assigned by SAE]	Z	9 X	7	= 63	2
3. [Same for all VIN]	9	9 X	6	= 54	3
4. Vehicle type, See table 'A'	<u>E</u>	<u>5</u> X	5	= <u>25</u>	4
5. Cab - See table 'B' (Except Trailer)	<u>3</u>	<u>3</u> X	4	= <u>12</u>	5
6. Engine - See table 'C' (Except Trailer)	<u>F</u>	<u>6</u> X	3	= <u>18</u>	6
7. Brakes-Air = 1, Hyd=2 (Except Trailer)	<u>1</u>	<u>1</u> X	2	= <u>2</u>	7
8. GVW - (Except Trailer) (For Trailers - See App. I)	<u>8</u>	<u>8</u> X	10	= <u>80</u>	8
CHECK DIGIT - See Below	<u>5</u>	___ X	0	= 0	
9. Model year - table from Standard	<u>F</u>	<u>6</u> X	9	= <u>54</u>	9
10. Always 'T' for Tulsa	T	<u>3</u> X	8	= <u>24</u>	10
11. [Identifier - Assigned]	1	1 X	7	= 7	11
12. [by SAE - Same for]	0	0 X	6	= 0	12
13. [all VIN]	6	6 X	5	= 30	13
14. [Sequentially assigned]	<u>0</u>	<u>0</u> X	4	= <u>0</u>	14
15. [by Zeligson]	<u>0</u>	<u>0</u> X	3	= <u>0</u>	15
16. [Company]	<u>1</u>	<u>1</u> X	2	= <u>2</u>	16

$379 \div 11 = 34 \frac{5}{11}$

Check Digit

ENTER VALUE FROM TABLE IV, STANDARD 115
 MULTIPLY VALUE X WEIGHT FACTOR
 ADD THE PRODUCTS AND DIVIDE BY 11
 REMAINDER IS CHECK DIGIT. (IF REMAINDER
 IS 10, CHECK DIGIT IS 0)

*Per Mr. Putman check digit is
 a X. 10/9/88 pdy.*

TABLE IV

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	

TABLE II

Year	Code
1980	A
1981	B
1982	C
1983	D
1984	E
1985	F
1986	G
1987	H
1988	J
1989	K
1990	L
1991	M
1992	N
1993	P
1994	R
1995	S
1996	T
1997	V
1998	W
1999	X
2000	Y

GVW

- Class A: Not greater than 3,000 pounds.
- Class B: 3,001-4,000 pounds.
- Class C: 4,001-5,000 pounds.
- Class D: 5,001-6,000 pounds.
- Class E: 6,001-7,000 pounds.
- Class F: 7,001-8,000 pounds.
- Class G: 8,001-9,000 pounds.
- Class H: 9,001-10,000 pounds.
- Class I: 10,001-14,000 pounds.
- Class J: 14,001-16,000 pounds.
- Class K: 16,001-19,500 pounds.
- Class L: 19,501-26,000 pounds.
- Class M: 26,001-33,000 pounds.
- Class N: 33,001 pounds and over.

November 16, 1984

Mr. M. E. Putnam
Zeligson Company
P.O. Box 581777
Tulsa, OK 74158

Dear Mr. Putnam:

This letter confirms our telephone conversation of November 13, 1984 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:

Zeligson Company
P.O. Box 581777
Tulsa, OK 74158
United States

1 Z 9 with the 3rd, 4th, and 5th
 characters of the Vehicle
 Indicator Section to be
 1 0 6

Zeligson/Trucks

Sincerely,



Debbie Bisch
WMI Coordinator

/db

Enclosure

cc: M. W. Dixon
A. Burgett
B. P. Hickey

RECEIVED

NOV 21 1984

ZELIGSON

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