

OCE VIN DECODER WORKSHEET

Sample VIN:

Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
VIN	1	Z	9	A	S	M	A	X	8	J	P	5	7	1	0	0	1

1	WMI 1	Will always be 1
2	WMI 2	Will always be Z
3	WMI 3	Will always be 9
4	Type of trailer	Specs
5	Axle number	Specs
6	Deck type	Specs
7	Trailer length	Specs
8	Load capacity	Specs
9	Check Digit	Math Formula
10	Model year	Set by NHTSA
11	Plant of Manufacture	M or P
12	WMI 4	Will always be 5
13	WMI 5	Will always be 7
14	WMI 6	Will always be 1
15	Serial #1	Count up from 001
16	Serial #2	for each variation
17	Serial #3	of trailer that OCE

1-3 Company Identifier - WMI Code 129

4 A - Ash Trailer, Ball Hitch, B - Flat Bed Trailer, Ball Hitch, C - Utility Trailer, Ball Hitch,
D - Deck Over Trailer, Ball Hitch, E - Emergency Trailer, Ball Hitch, F - Tiny Home Frame Trailer, Ball Hitch

5 S - Single Axle, D - Dual Axle

6 M - Metal Frame, W - Wood

Full length	13'	14'	15'	16'	17'	18'	19'	20'	21'	22'	23'	24'	25'
Identifier	A	B	C	D	E	F	G	H	J	K	L	M	N

8 U - 1,000 - 2,000lbs, V - 2,001 - 3,000lbs, W - 3,001 - 4,000lbs, X - 4,001 - 5,000lbs, Y - 5,001 - 6,000lbs, Z - 6,001 - 10,000lbs

9 Check digit (Calculated digit based on all other VIN characters. Used for validation.)

Code Letter	J	K	L	M	N	P	R	S	T	V	W	X	Y	1	2	3	4	5	6	7	8	9
Year 20XX	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39

11 M - Mill Creek Correctional Facility, 5400 Turner Rd SE Salem, OR 97317

P - Oregon State Penitentiary, 2605 State Street Salem, OR 97310

12-14 Company Identifier - WMI Extension 571

15-17 Sequential serial number 001 - 999

Formula for Position 9

Step One - Assign each letter a value from this chart:

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

Step Two - Multiply letter values and numbers by these position-associated weights:

Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Weight	8	7	6	5	4	3	2	10	X	9	8	7	6	5	4	3	2

Step Three - Total up the values:

Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
VIN	1	Z	9									5	7	1			
Value	1	9	9									5	7	1			
Weight	8	7	6	5	4	3	2	10		9	8	7	6	5	4	3	2
Subtotal	8	63	54	0	0	0	0	0		0	0	35	42	5	0	0	0
Total:																	207

Step Four - Divide the total by 11 and select the check digit based on the remainder:

Total / 11	18.818												
Fractional Remainder			0	1	2	3	4	5	6	7	8	9	10
Decimal Equivalent Remainder			0.000	0.091	0.182	0.273	0.364	0.455	0.545	0.636	0.727	0.818	0.909
Check Digit			0	1	2	3	4	5	6	7	8	9	X