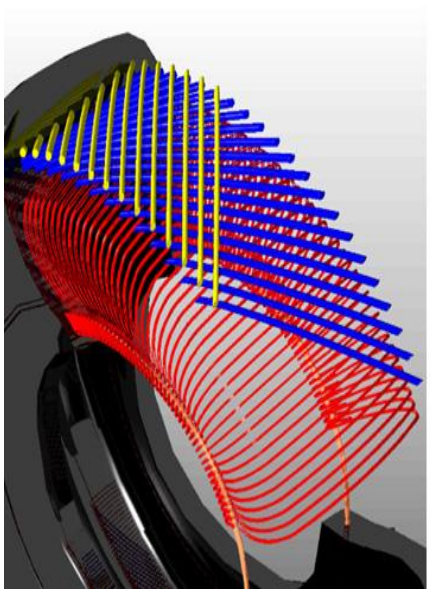
Stephen Finn

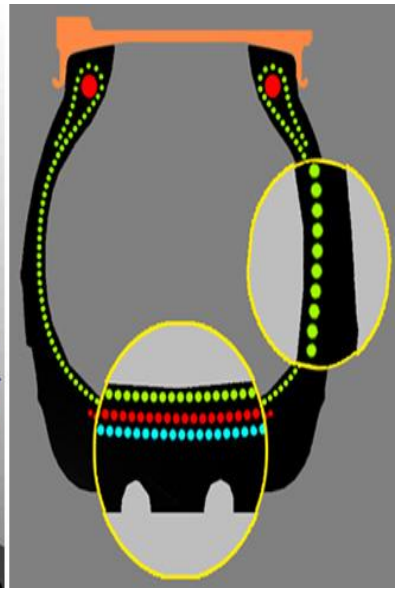
- Tyre service Company
- Cradle to grave service.
- Sales
- Fitting
- Monitoring ltyre
- Vulcalisation
- Matching
- Retread
- Disposal

1) Correct application
2) Tyre Pressure
3) Monitor and Maintain
4) Working conditions
5) Retreading and end of

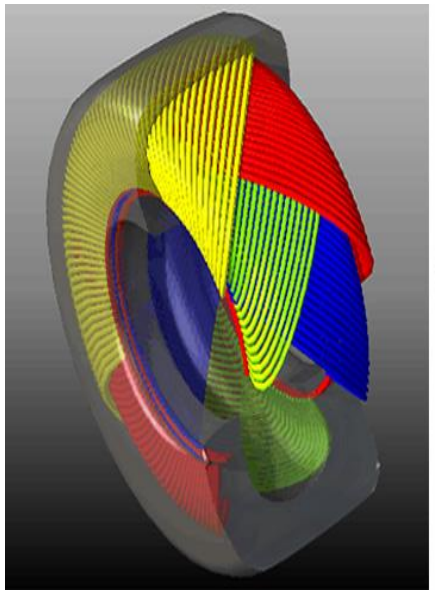
1)Application

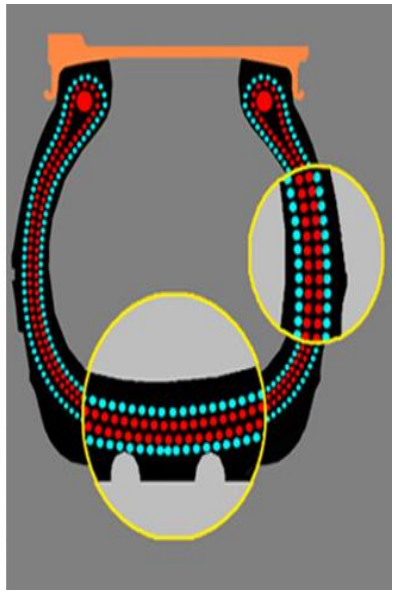
Radial





Bias or X ply





LOAD INDEX

LI	Kg	LI	Kg	LI	Kg	LI	Kg	LI	Kg	LI	Kg	LI	Kg
140	2,500	160	4,500	180	8,000	200	14,000	220	25,000	240	45,000	260	80,000
141	2,575	161	4,625	181	8,250	201	14,500	221	25,750	241	46,250	261	82,500
142	2,650	162	4,750	182	8,500	202	15,000	222	26,500	242	47,500	262	85,000
143	2,725	163	4,875	183	8,750	203	15,500	223	27,250	243	48,750	263	87,500
144	2,800	164	5,000	184	9,000	204	16,000	224	28,000	244	50,000	264	90,000
145	2,900	165	5,150	185	9,250	205	16,500	225	29,000	245	51,500	265	92,500
146	3,000	166	5,300	186	9,500	206	17,000	226	30,000	246	53,000	266	95,000
147	3,075	167	5,450	187	9,750	207	17,500	227	30,750	247	54,500	267	97,500
148	3,150	168	5,600	188	10,000	208	18,000	228	31,500	248	56,000	268	100,000
149	3,250	169	5,800	189	10,300	209	18,500	229	32,500	249	58,000	269	103,000
150	3,350	170	6,000	190	10,600	210	19,000	230	33,500	250	60,000	270	106,000
151	3,450	171	6,150	191	10,900	211	19,500	231	34,500	251	61,500	271	109,000
152	3,550	172	6,300	192	11,200	212	20,000	232	35,500	252	63,000	272	112,000
153	3,650	173	6,500	193	11,500	213	20,600	233	36,500	253	65,000	273	115,000
154	3,750	174	6,700	194	11,800	214	21,200	234	37,500	254	67,000	274	118,000
155	3,875	175	6,900	195	12,150	215	21,800	235	38,750	255	69,000	275	121,000
156	4,000	176	7,100	196	12,500	216	22,400	236	40,000	256	71,000	276	125,000
157	4,125	177	7,300	197	12,850	217	23,000	237	41,250	257	73,000	277	128,000
158	4,250	178	7,500	198	13,200	218	23,600	238	42,500	258	75,000	278	132,500
159	4,375	179	7,750	199	13,600	219	24,300	239	43,750	259	77,500	279	136,000

The LOAD INDEX denotes the maximum load a given tyre can carry at the maximum speed as indicated by the speed symbol.

SPEED SYMBOL

Speed Symbol	Speed (km/h)	Speed Symbol	Speed (km/h)	Speed Symbol	Speed (km/h)	Speed Symbol	Speed (km/h)
A1	5	A5	25	B	50	F	80
A2	10	A6	30	C	60	G	90
A3	15	A7	35	D	65		
A4	20	A8	40	E	70		

The SPEED SYMBOL denotes the maximum speed at which a given tyre can carry the load indicated by the load index

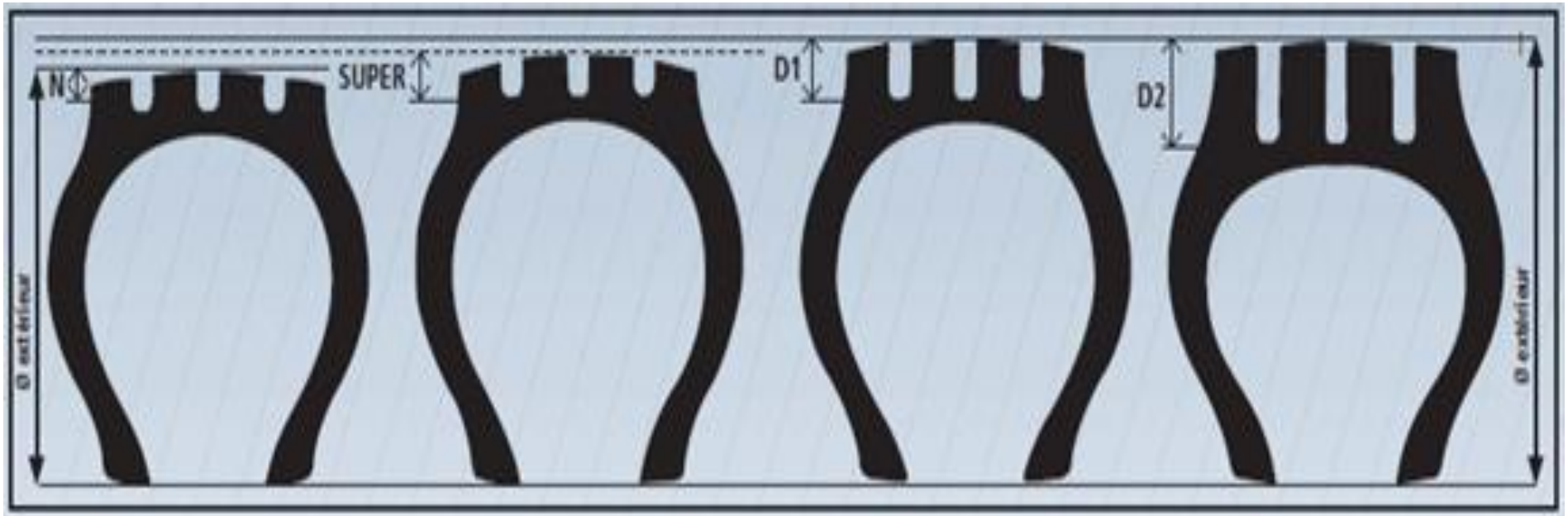
LOAD CAPACITY VARIATIONS (%) AS A FUNCTION OF SPEED

EARTHMOVING APPLICATIONS

The variation in load carrying capacity with speed of earthmoving equipment tyres in relatively short haul off-the-road conditions is determined by applying the percentages shown for EARTHMOVING APPLICATIONS to the tyre load capacities specified for TRANSPORT (reference speed 50 km/h) at the corresponding inflation pressure.

Earthmoving Applications	
Maximum Operating Speed (km/h)	Load Capacity Variation (%)
<16	*
16	+12
20	+10
25	+8
30	+6
35	+4
40	+3
45	+2
50 Transport Reference Speed (Symbol B)	0
	Radial
55	-2
60	-6
65	-12
>65	*

** Consult your local Goodyear representative.*



(E2 - E3 - L2 - L3 - G2 - G3)

Traction . Normal tread depth
Michelin designation:
N (Normal)

(SUPER E3, SUPER L3)

Normal tread depth
Michelin designation:
SUPER
(N < SUPER < D1)

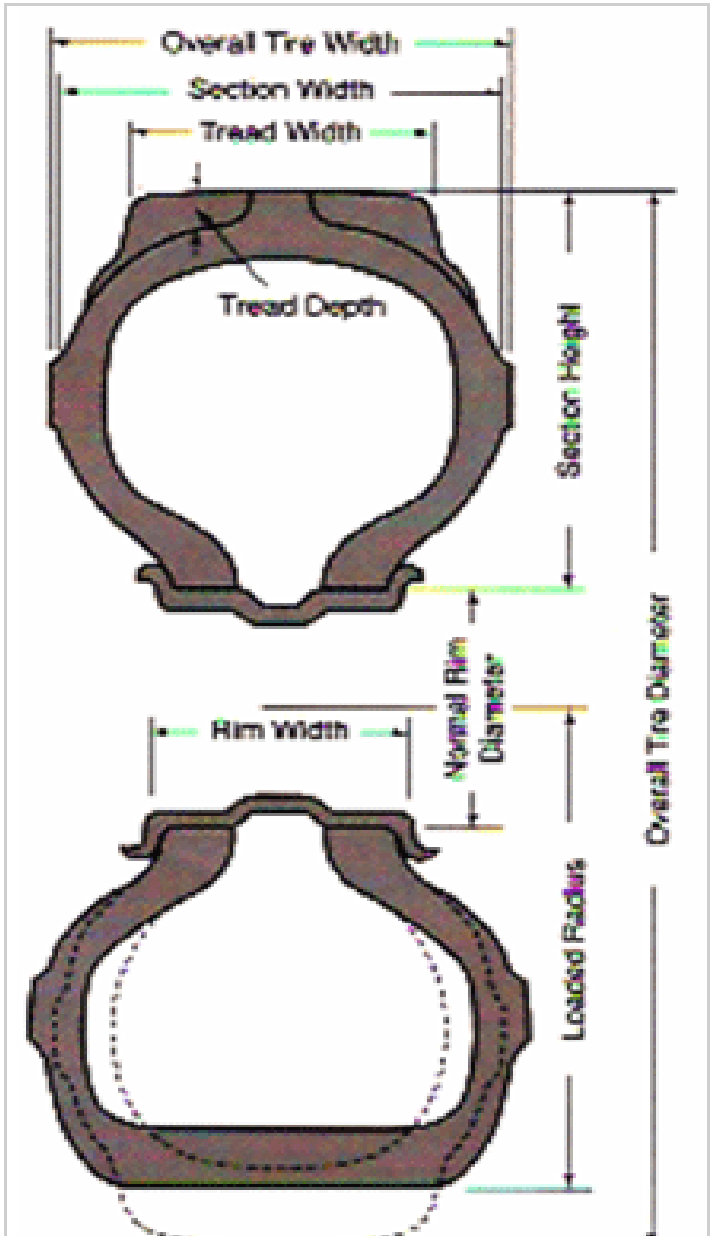
(E4 - L4 - G4)

Deep tread
Aggressive ground
Michelin Designation:
D1 = N x 1,5

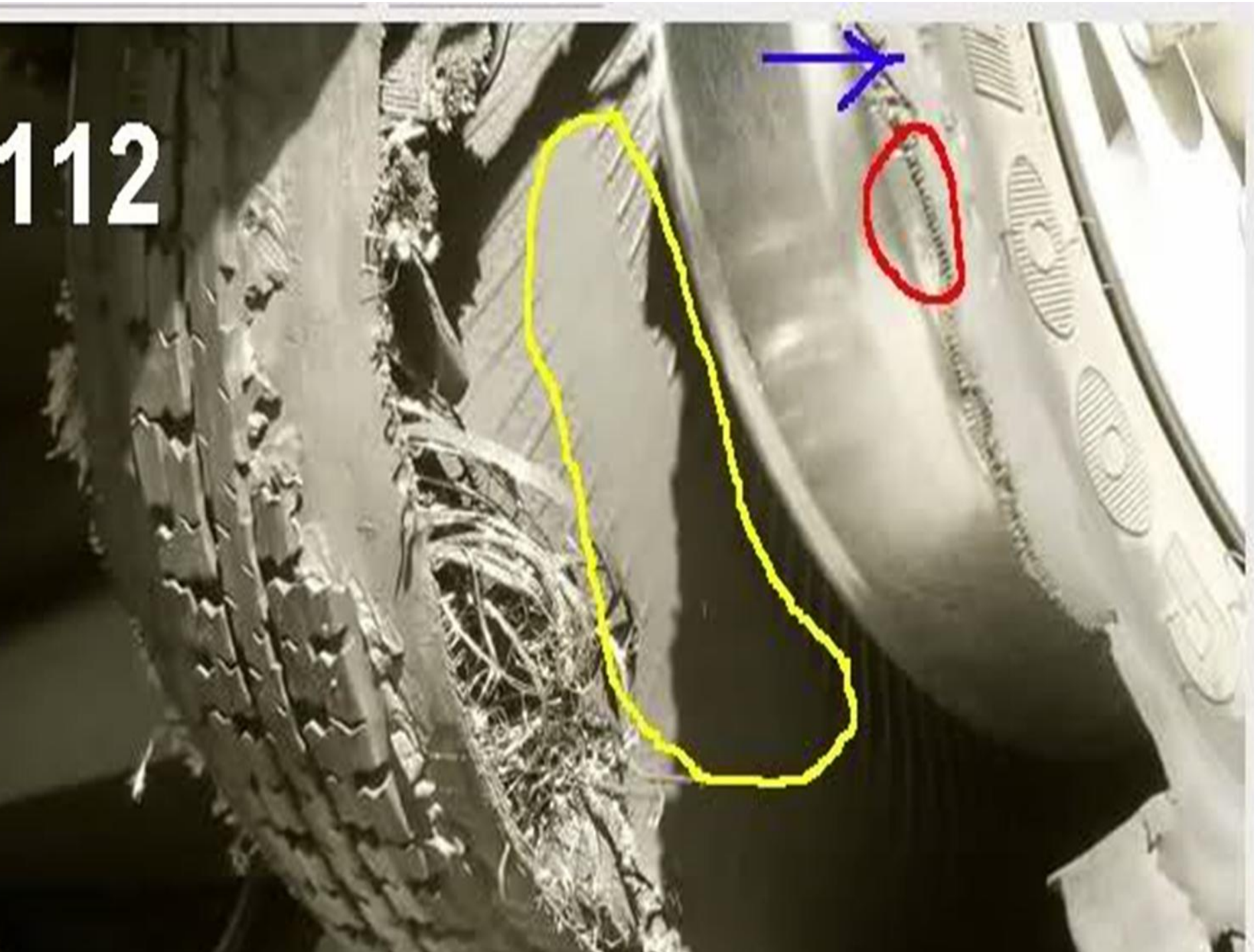
(L5)

Extra Deep tread
Abrasive and
Aggressive ground
Michelin Designation:
D2 = N * 2,5

2) Tyre Pressures

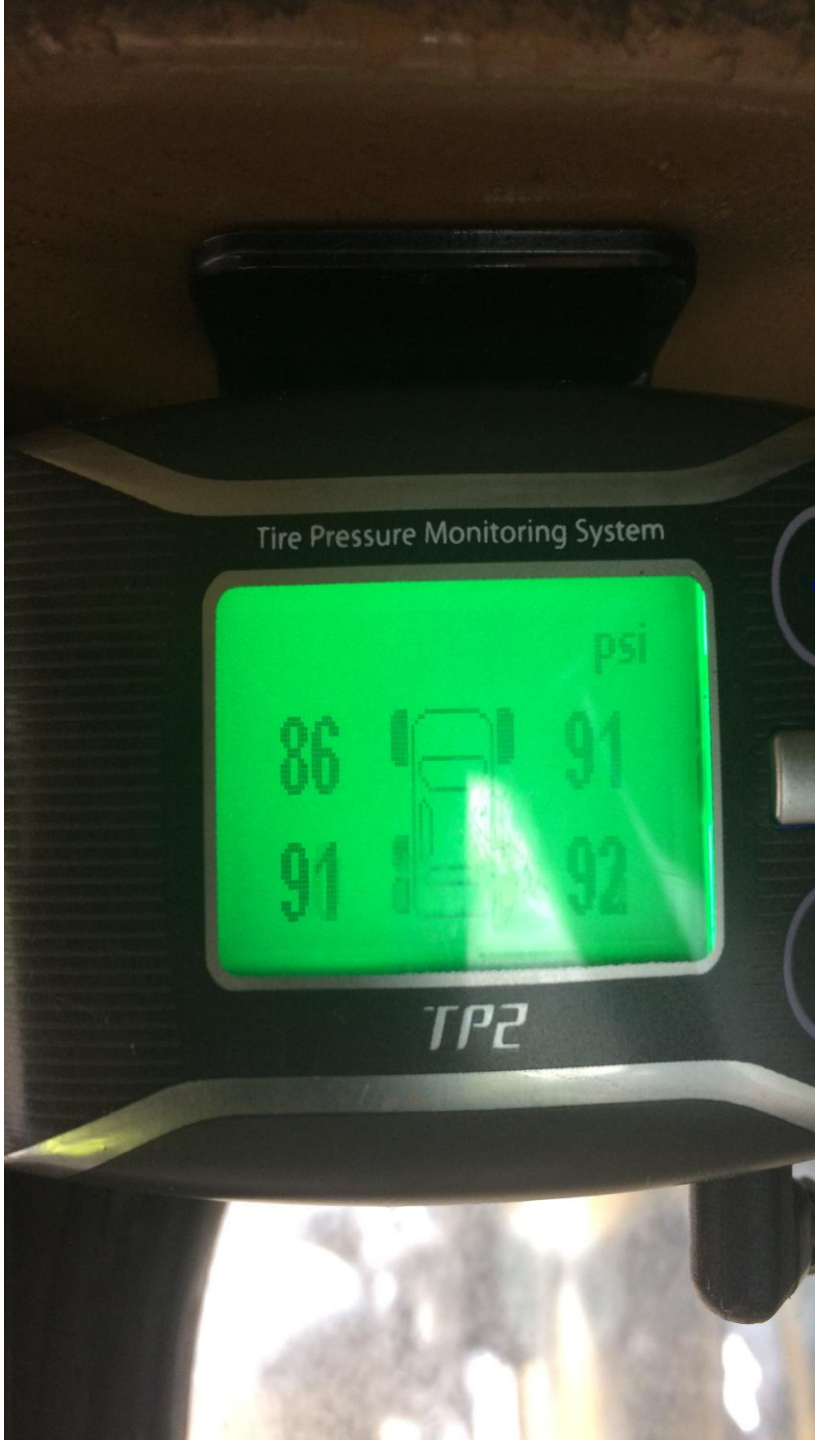



CATERPILLAR
D11R
930E
6410
KOMATSU
KOMATSU
RESCUE


112

Monitor

Sensors


Tire Pressure Monitoring System
psi
86
91
91
92
TP2


BKT

3) Monitor tyres

VOLVO


ALL STEEL RAD


24.00R35
TUBELESS


26.5R25
RECYCLABLE


Snap-on

4) Working Conditions


photo open stock

Fig. 14. This break resulted from a severe blow while overinflated.

In soft soil, the tire makes an impression. The impression cradles the tire and reduces excess deflection. Inflation can be reduced.

Tires operated on hard surfaces do not receive this support. They have to control deflection by inflation pressure. Higher pressures are required.

Indirect, but important, advantages of lower inflation pressures include:

- Better flotation.
- Better traction.
- Better resistance to cutting and impact breaks.

Fig. 16.

Fig. 17.


CATERPILLAR
QUARRY TRUCK
CD21
775D


775E
CAT

5) Retreading and End of life


ALPHA
MAMMUTH