

## 540/80R38 172A8/167D TRI 2 EXTREME STEEL

Reliable performance all year round

|                          |                        |
|--------------------------|------------------------|
| PRODUCT CODE             | T445535                |
| TIRE CLASSIFICATION CODE | R-4                    |
| APPLICATION              | Tractor / Wheel loader |
| LI / SPEED SYMBOL        | 172A8 (167D)           |
| RIM RECOMMENDED          | DW18L                  |
| RIM PERMITTED            | DW16L                  |
| TYPE APPROVAL            | E8 106R-000282         |



### LOAD CAPACITY FOR TRACTOR, LB

#### Constant load

| Pressure (psi) | Speed (mph) |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                | 0           | 2.5   | 5     | 10    | 12    | 15    | 17.5  | 22.5  | 25    | 27.5  | 30    | 35    | 37.5  | 40    |
| 12             | 14550       | 9205  | 7935  | 7165  | 6945  | 6725  | 6615  | 6505  | 6340  | 6175  | 5950  | 5785  | 5675  | 5510  |
| 17             | 18330       | 11595 | 10000 | 9030  | 8750  | 8475  | 8335  | 8190  | 7990  | 7780  | 7495  | 7295  | 7155  | 6945  |
| 23             | 22555       | 14265 | 12300 | 11110 | 10770 | 10430 | 10250 | 10085 | 9820  | 9570  | 9225  | 8975  | 8795  | 8545  |
| 29             | 24735       | 15655 | 13490 | 12180 | 11805 | 11430 | 11245 | 11055 | 10780 | 10495 | 10120 | 9845  | 9655  | 9370  |
| 35             | 26920       | 17030 | 14685 | 13260 | 12855 | 12445 | 12235 | 12035 | 11730 | 11420 | 11010 | 10705 | 10505 | 10195 |
| 41             | 29100       | 18410 | 15875 | 14330 | 13890 | 13450 | 13230 | 13005 | 12675 | 12345 | 11905 | 11575 | 11355 | 11025 |
| 46             | 32595       | 20615 | 17780 | 16050 | 15555 | 15060 | 14815 | 14575 | 14200 | 13825 | 13340 | 12965 | 12720 | 12345 |

#### Cyclic load

| Pressure (psi) | Speed (mph) |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                | 0           | 2.5   | 5     | 10    | 12    | 15    | 17.5  | 22.5  | 25    | 27.5  | 30    | 35    | 37.5  | 40    |
| 12             | 14550       | 10580 | 9535  | 8490  | 7825  | 7055  | 6780  | 6560  | 6340  | 6175  | 5950  | 5785  | 5675  | 5510  |
| 17             | 18330       | 13340 | 12015 | 10690 | 9865  | 8885  | 8545  | 8265  | 7990  | 7780  | 7495  | 7295  | 7155  | 6945  |
| 23             | 22555       | 16400 | 14780 | 13160 | 12135 | 10935 | 10505 | 10165 | 9820  | 9570  | 9225  | 8975  | 8795  | 8545  |
| 29             | 24735       | 17990 | 16215 | 14430 | 13305 | 11995 | 11530 | 11155 | 10780 | 10495 | 10120 | 9845  | 9655  | 9370  |
| 35             | 26920       | 19575 | 17635 | 15710 | 14485 | 13050 | 12545 | 12135 | 11730 | 11420 | 11010 | 10705 | 10505 | 10195 |
| 41             | 29100       | 21165 | 19070 | 16975 | 15655 | 14110 | 13560 | 13120 | 12675 | 12345 | 11905 | 11575 | 11355 | 11025 |
| 46             | 32595       | 23700 | 21365 | 19015 | 17525 | 15805 | 15190 | 14695 | 14200 | 13825 | 13340 | 12965 | 12720 | 12345 |

**TIRE DIMENSIONS**

|                         | New tire | Max. in service |
|-------------------------|----------|-----------------|
| OVERALL DIAMETER        | 71.9 in  | 73.3 in         |
| TIRE WIDTH              | 21.3 in  | 22.3 in         |
| PATTERN DEPTH           | 38/32 in |                 |
| MAX. INFLATION PRESSURE | 46 psi   |                 |

|                               |  |
|-------------------------------|--|
| STATIC LOADED RADIUS          | 32.6 in @ 13900 lb / 46 psi                                      |
| DYNAMIC ROLLING CIRCUMFERENCE | 217.9 in @ 13900 lb / 46 psi                                     |
| DYNAMIC ROLLING RADIUS        | 34.7 in @ 13900 lb / 46 psi                                      |
| SPEED RADIUS INDEX            | 875  |
| TUBE PRODUCT CODE             | T55445   |
| STUDDABLE                     | Yes<br>Marked stud positions on tread<br>Number of studs 192 pcs |
| VOLUME                        | 195 gallons 100%<br>146 gallons 75%                              |

**WATER AND SALT BALLASTING**

(CaCl<sub>2</sub>, 75%, -30°C) Always use a tube when filled with water/salt.

| Tire volume 100% |         | Water filling 75% |         | Water/salt filling (75% / -30°C) |         |      |     | Total weight increase |      |
|------------------|---------|-------------------|---------|----------------------------------|---------|------|-----|-----------------------|------|
|                  |         |                   |         | Water                            |         | Salt |     |                       |      |
| Litres           | Gallons | Litres            | Gallons | Litres                           | Gallons | kg   | lbs | kg                    | lbs  |
| 740              | 195     | 555               | 147     | 455                              | 120     | 232  | 512 | 687                   | 1515 |

NOKIAN TYRES PLC is a full member of ETRTO and affiliated member of TRA. In design and production, we certify that products made in Nokian factory (YL) are according the ETRTO and TRA standards.

Tyre have been manufactured and tested in accordance with the requirements of ISO 9001 and ISO 14001. Nokian Tyres Plc has the following certificates:

- Quality Management System Standard, ISO 9001, Certificate No: 76363-2010-AQ-FIN-FINAS
- Environmental Management System Standard, ISO 14001, Certificate No: 76361-2010-AE-FIN-FINAS

More information: [www.nokiantyres.com/heavy/technical-tire-manual/](http://www.nokiantyres.com/heavy/technical-tire-manual/)