

## 520/70R38 160D/157E NOKIAN TYRES GROUND KING SB TL

A crossover tire for mixed agricultural work

|                          |                   |
|--------------------------|-------------------|
| PRODUCT CODE             | T445732           |
| TIRE CLASSIFICATION CODE | R-1W              |
| APPLICATION              | Tractor / Trailer |
| LI / SPEED SYMBOL        | 160D (157E)       |
| RIM RECOMMENDED          | DW16L             |
| RIM PERMITTED            | DW18L, DW15L      |
| TYPE APPROVAL            | E8 106R-001802    |



### LOAD CAPACITY FOR TRACTOR, KG

#### Tractor

| Pressure<br>(kPa) | Speed (km/h) |          |      |      |      |             |      |      |      |      |      |      |      |      |
|-------------------|--------------|----------|------|------|------|-------------|------|------|------|------|------|------|------|------|
|                   | 5            | 10<br>LT | 15   | 20   | 25   | 30<br>10 HT | 35   | 40   | 45   | 50   | 55   | 60   | 65   | 70   |
| 80                | 3605         | 3180     | 2840 | 2610 | 2510 | 2440        | 2375 | 2320 | 2270 | 2225 | 2185 | 2150 | 2120 | 1930 |
| 120               | 4635         | 4090     | 3650 | 3350 | 3230 | 3135        | 3050 | 2985 | 2915 | 2860 | 2805 | 2765 | 2725 | 2480 |
| 160               | 5525         | 4875     | 4355 | 4000 | 3850 | 3740        | 3640 | 3560 | 3480 | 3415 | 3350 | 3300 | 3250 | 2960 |
| 200               | 6205         | 5475     | 4890 | 4490 | 4325 | 4200        | 4090 | 3995 | 3905 | 3835 | 3760 | 3705 | 3650 | 3320 |
| 240               | 6590         | 5815     | 5195 | 4765 | 4590 | 4455        | 4340 | 4245 | 4145 | 4070 | 3990 | 3935 | 3875 | 3525 |
| 280               | 7225         | 6375     | 5695 | 5230 | 5035 | 4890        | 4760 | 4655 | 4550 | 4465 | 4380 | 4315 | 4250 | 3870 |
| 320               | 7650         | 6750     | 6030 | 5535 | 5335 | 5175        | 5040 | 4930 | 4815 | 4725 | 4635 | 4570 | 4500 | 4095 |

### LOAD CAPACITY FOR TRAILER, KG

#### Trailed

| Pressure<br>(kPa) | Speed (km/h) |      |      |      |      |      |      |      |      |      |
|-------------------|--------------|------|------|------|------|------|------|------|------|------|
|                   | 5            | 10   | 15   | 20   | 25   | 30   | 35   | 40   | 45   | 50   |
| 80                | 3605         | 3180 | 2840 | 2610 | 2545 | 2545 | 2545 | 2545 | 2440 | 2310 |
| 120               | 4635         | 4090 | 3650 | 3350 | 3270 | 3270 | 3270 | 3270 | 3135 | 2970 |
| 160               | 5525         | 4875 | 4355 | 4000 | 3900 | 3900 | 3900 | 3900 | 3740 | 3545 |
| 200               | 6205         | 5475 | 4890 | 4490 | 4380 | 4380 | 4380 | 4380 | 4200 | 3980 |
| 240               | 6590         | 5815 | 5195 | 4765 | 4650 | 4650 | 4650 | 4650 | 4455 | 4225 |
| 280               | 7225         | 6375 | 5695 | 5230 | 5100 | 5100 | 5100 | 5100 | 4890 | 4635 |
| 320               | 7650         | 6750 | 6030 | 5535 | 5400 | 5400 | 5400 | 5400 | 5175 | 4905 |

Increase the inflation pressure by 40 kPa (0,4 bar , 7 psi) for : Extensive road driving and use on slopes with inclination more than 20%. Do not exceed maximum pressure. In dual formation the load capacity is 0,88 x single tire load capacity per tire. For high torque field application use 30km/h line.

## TIRE DIMENSIONS

|                          | New tire | Max. in service |
|--------------------------|----------|-----------------|
| OVERALL DIAMETER         | 1752 mm  | 1781 mm         |
| TIRE WIDTH               | 516 mm   | 542 mm          |
| PATTERN DEPTH            | 55 mm    |                 |
| PATTERN DEPTH ON TIE BAR |          |                 |
| MAX. INFLATION PRESSURE  | 320 kPa  |                 |

|                               |                                                                                                              |
|-------------------------------|--------------------------------------------------------------------------------------------------------------|
| STATIC LOADED RADIUS          | 803 mm @ 4500 kg / 320 kPa                                                                                   |
| DYNAMIC ROLLING CIRCUMFERENCE | 5342 mm @ 4500 kg / 320 kPa                                                                                  |
| DYNAMIC ROLLING RADIUS        | 850 mm @ 4500 kg / 320 kPa                                                                                   |
| SPEED RADIUS INDEX            | 825                                                                                                          |
| TUBELESS VALVE                | TR618A                                                                                                       |
| BELT MATERIAL                 | Steel                                                                                                        |
| MARKINGS                      | M+S                                                                                                          |
| STUDDABLE                     | Yes<br>Marked stud positions on tread<br>Number of studs 144 pcs<br>Recommended stud 12-20,12-23-12-24,16-19 |
| VOLUME                        | 547 l 100%<br>410 l 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  |
| 547              | 145     | 410               | 108     | 337                              | 89      | 172  | 378 | 509                   | 1122 |

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.

The tire has 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/)