

# 540/70R24 175A8/170D NOKIAN TYRES HAKKAPELIITTA TRI SB TL

Precise control and great efficiency

|                          |                        |
|--------------------------|------------------------|
| PRODUCT CODE             | T445672                |
| EQUIVALENT SIZE          | 21LR24                 |
| TIRE CLASSIFICATION CODE | R-4                    |
| APPLICATION              | Wheel loader / Tractor |
| LI / SPEED SYMBOL        | 175A8 (170D)           |
| RIM RECOMMENDED          | DW18L                  |
| RIM PERMITTED            | DW16L                  |
| TYPE APPROVAL            | E8 106R-001576         |



## LOAD CAPACITY FOR WHEEL LOADER, KG

### Constant load

| Pressure<br>(kPa) | Speed (km/h) |       |      |      |      |      |      |      |      |      |      |      |      |      |
|-------------------|--------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|
|                   | 0            | 5     | 10   | 15   | 20   | 25   | 30   | 35   | 40   | 45   | 50   | 55   | 60   | 65   |
| 80                | 4750         | 3005  | 2590 | 2340 | 2270 | 2195 | 2160 | 2125 | 2070 | 2015 | 1945 | 1890 | 1855 | 1800 |
| 120               | 6070         | 3840  | 3310 | 2990 | 2900 | 2805 | 2760 | 2715 | 2645 | 2575 | 2485 | 2415 | 2370 | 2300 |
| 160               | 7390         | 4675  | 4030 | 3640 | 3530 | 3415 | 3360 | 3305 | 3220 | 3135 | 3025 | 2940 | 2885 | 2800 |
| 200               | 8315         | 5260  | 4535 | 4095 | 3970 | 3845 | 3780 | 3715 | 3625 | 3530 | 3400 | 3310 | 3245 | 3150 |
| 240               | 8845         | 5595  | 4825 | 4355 | 4220 | 4085 | 4020 | 3955 | 3855 | 3750 | 3620 | 3520 | 3450 | 3350 |
| 280               | 9635         | 6095  | 5255 | 4745 | 4600 | 4455 | 4380 | 4305 | 4200 | 4090 | 3940 | 3835 | 3760 | 3650 |
| 320               | 10560        | 6680  | 5760 | 5200 | 5040 | 4880 | 4800 | 4720 | 4600 | 4480 | 4320 | 4200 | 4120 | 4000 |
| 360               | 11880        | 7515  | 6480 | 5850 | 5670 | 5490 | 5400 | 5310 | 5175 | 5040 | 4860 | 4725 | 4635 | 4500 |
| 400               | 12870        | 8140  | 7020 | 6340 | 6145 | 5950 | 5850 | 5755 | 5605 | 5460 | 5265 | 5120 | 5020 | 4875 |
| 450               | 14390        | 9100  | 7850 | 7085 | 6865 | 6650 | 6540 | 6430 | 6270 | 6105 | 5885 | 5725 | 5615 | 5450 |
| 500               | 15840        | 10020 | 8640 | 7800 | 7560 | 7320 | 7200 | 7080 | 6900 | 6720 | 6480 | 6300 | 6180 | 6000 |

Cyclic load

| Pressure<br>(kPa) | Speed (km/h) |       |       |      |      |      |      |      |      |      |      |      |      |      |
|-------------------|--------------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|
|                   | 0            | 5     | 10    | 15   | 20   | 25   | 30   | 35   | 40   | 45   | 50   | 55   | 60   | 65   |
| 80                | 4750         | 3455  | 3115  | 2770 | 2555 | 2305 | 2215 | 2140 | 2070 | 2015 | 1945 | 1890 | 1855 | 1800 |
| 120               | 6070         | 4415  | 3980  | 3540 | 3265 | 2945 | 2830 | 2735 | 2645 | 2575 | 2485 | 2415 | 2370 | 2300 |
| 160               | 7390         | 5375  | 4845  | 4310 | 3975 | 3585 | 3445 | 3330 | 3220 | 3135 | 3025 | 2940 | 2885 | 2800 |
| 200               | 8315         | 6050  | 5450  | 4850 | 4475 | 4030 | 3875 | 3750 | 3625 | 3530 | 3400 | 3310 | 3245 | 3150 |
| 240               | 8845         | 6430  | 5795  | 5160 | 4755 | 4290 | 4120 | 3985 | 3855 | 3750 | 3620 | 3520 | 3450 | 3350 |
| 280               | 9635         | 7010  | 6315  | 5620 | 5185 | 4670 | 4490 | 4345 | 4200 | 4090 | 3940 | 3835 | 3760 | 3650 |
| 320               | 10560        | 7680  | 6920  | 6160 | 5680 | 5120 | 4920 | 4760 | 4600 | 4480 | 4320 | 4200 | 4120 | 4000 |
| 360               | 11880        | 8640  | 7785  | 6930 | 6390 | 5760 | 5535 | 5355 | 5175 | 5040 | 4860 | 4725 | 4635 | 4500 |
| 400               | 12870        | 9360  | 8435  | 7510 | 6925 | 6240 | 5995 | 5800 | 5605 | 5460 | 5265 | 5120 | 5020 | 4875 |
| 450               | 14390        | 10465 | 9430  | 8395 | 7740 | 6975 | 6705 | 6485 | 6270 | 6105 | 5885 | 5725 | 5615 | 5450 |
| 500               | 15840        | 11520 | 10380 | 9240 | 8520 | 7680 | 7380 | 7140 | 6900 | 6720 | 6480 | 6300 | 6180 | 6000 |

TIRE DIMENSIONS

|                          | New tire | Max. in service |
|--------------------------|----------|-----------------|
| OVERALL DIAMETER         | 1367 mm  | 1396 mm         |
| TIRE WIDTH               | 540 mm   | 567 mm          |
| PATTERN DEPTH            | 30 mm    |                 |
| PATTERN DEPTH ON TIE BAR |          |                 |
| MAX. INFLATION PRESSURE  | 500 kPa  |                 |

STATIC LOADED RADIUS 603 mm @ 6900 kg / 500 kPa

DYNAMIC ROLLING CIRCUMFERENCE 4143 mm @ 6900 kg / 500 kPa

DYNAMIC ROLLING RADIUS 659 mm @ 6900 kg / 500 kPa

SPEED RADIUS INDEX 650

TUBELESS VALVE TR618A

BELT MATERIAL Steel

MARKINGS M+S

STUDDABLE Yes  
Marked stud positions on tread  
Number of studs 144 pcs  
Recommended stud 12-20,12-23,12-24

VOLUME 440 l 100%  
330 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 |
| 440              | 116     | 330               | 87      | 271                              | 72      | 138  | 304 | 409                   | 902 |

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/)