

# 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, 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	10470	6625	5710	5160	5005	4840	4760	4685	4565	4440	4290	4165	4090	3970
17	13380	8465	7295	6590	6395	6185	6085	5985	5830	5675	5480	5325	5225	5070
23	16290	10305	8885	8025	7780	7530	7410	7285	7100	6910	6670	6480	6360	6175
29	18330	11595	10000	9030	8750	8475	8335	8190	7990	7780	7495	7295	7155	6945
35	19500	12335	10635	9600	9305	9005	8865	8720	8500	8265	7980	7760	7605	7385
41	21240	13435	11585	10460	10140	9820	9655	9490	9260	9015	8685	8455	8290	8045
46	23280	14725	12700	11465	11110	10760	10580	10405	10140	9875	9525	9260	9085	8820
52	26190	16570	14285	12895	12500	12105	11905	11705	11410	11110	10715	10415	10220	9920
58	28375	17945	15475	13975	13545	13120	12895	12690	12355	12035	11605	11290	11065	10750
65	31725	20060	17305	15620	15135	14660	14420	14175	13825	13460	12975	12620	12380	12015
73	34920	22090	19050	17195	16665	16140	15875	15610	15210	14815	14285	13890	13625	13230

**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	10470	7615	6865	6105	5635	5080	4885	4720	4565	4440	4290	4165	4090	3970
17	13380	9735	8775	7805	7200	6495	6240	6030	5830	5675	5480	5325	5225	5070
23	16290	11850	10680	9500	8765	7905	7595	7340	7100	6910	6670	6480	6360	6175
29	18330	13340	12015	10690	9865	8885	8545	8265	7990	7780	7495	7295	7155	6945
35	19500	14175	12775	11375	10485	9460	9085	8785	8500	8265	7980	7760	7605	7385
41	21240	15455	13920	12390	11430	10295	9900	9580	9260	9015	8685	8455	8290	8045
46	23280	16930	15255	13580	12520	11290	10845	10495	10140	9875	9525	9260	9085	8820
52	26190	19050	17165	15280	14090	12700	12205	11805	11410	11110	10715	10415	10220	9920
58	28375	20635	18595	16555	15265	13755	13215	12785	12355	12035	11605	11290	11065	10750
65	31725	23070	20790	18510	17065	15375	14780	14295	13825	13460	12975	12620	12380	12015
73	34920	25395	22885	20370	18785	16930	16270	15740	15210	14815	14285	13890	13625	13230

**TIRE DIMENSIONS**

	New tire	Max. in service
OVERALL DIAMETER	53.8 in	55 in
TIRE WIDTH	21.3 in	22.3 in
PATTERN DEPTH	38/32 in	
PATTERN DEPTH ON TIE BAR		
MAX. INFLATION PRESSURE	73 psi	

STATIC LOADED RADIUS 23.7 in @ 15200 lb / 73 psi

DYNAMIC ROLLING CIRCUMFERENCE 163.1 in @ 15200 lb / 73 psi

DYNAMIC ROLLING RADIUS 26 in @ 15200 lb / 73 psi

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 116 gallons 100%  
87 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
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/)