

WHEEL TEST REPORT

Date : 22/5/2026

Reference No.		PCD Dilling Tool	
Name, brand (type)		Rim Size	18X11.0
Offset (mm)	54	P.C.D.	120.65
Hub Dia.	70.3	Number of bolt	5H
Weight (kg)	10.7	structure	1 Pc Wheel
Material	A356 - T6 (AC4C)	Manufacturing Method	Tilting Gravity Casting
Wheel Production Date:	./4/2026	Ingot Lot No.	

Customer Name:



1. Tire used for test :

Item	Norminal Decsingnation of tire
Dynamic radial fatigue test	305/60R18
Impact test	275/35R18

2. Testing conditions and result : (Load = 726 kg)

(1) Dynamic cornering fatigue test :

Testing equipment approval number : Date of test : Day 3 Month 5 Year 2026

N	Bending moment during test (kN.m)	Number of test revolutions (Cycles)	Appearances concerning damage, etc. of disc wheel after test	Appearances concerning looseness in attached section , etc, of disc wheel after test	Judgment
1	3.583	150,000	None	None	OK
F used in calculation of bending moment 7.12 (kN) r = 0.372 (m) d = 0.054 (m)					
Calculated bending moment value 3.583 (kN.m)					

(2) Dynamic radial fatigue test : (Load = 726 kg)

Testing equipment approval number : Date of test : Day 11 Month 5 Year 2026

N	Air pressure prior to test (kg/cm ²)	Radial load during test (kN)	Number of test revolutions (Cycles)	Appearances concerning damage , etc . of disc wheel after test	Appearances concerning looseness in attached section , etc, of disc wheel after test	Judgment
1	4.6	17.81	1,100,000	None	None	OK
F used in calculation of radial load : 7.12 (kN) Calculated radial load Q = 17.81 (kN)						

(3) Impact test : (Load = 726 kg)

Testing equipment approval number : Date of test : Day 3 Month 5 Year 2026

N	Air pressure prior to test (Kg / cm ²)	Overall width (mm)	Weight mass (kgs)	Drop Hight (mm)	Impact degree (°)	Impact Position (°)	Damage to disc wheel Air leakage	Judgment
1	2.0	304.0	615.6	230.0	13	0	None	OK
2	2.0	304.0	615.6	230.0	13	150	None	

3. Overall assessment : Qualified : ☒ V Not qualified : ☐

4. Remark : (check with a circle, when applicable)

4.1 Indication site for load indication marks : Inner side : ☒ V Outer Side : ☒ V Rim : ☐ D4.2 Rust prevention treatment : with 1 Painting ☒ V 2. Sputtering ☐ 3. Plating ☐

4. Anodizin

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Offset (mm)	54	P.C.D.	120.65
Hub Dia.	70.3	Number of bolt	5H
Weight (kg)	10.7	structure	1 Pc Wheel
Material	A356 (AC4C)	Manufacturing Method	Tilting Gravity Casting
Wheel Production Date:	.-04/2026	Ingot Lot No.	

Customer Name:



1. Tire used for test :

Item	Norminal Decsingnation of tire
Dynamic radial fatigue test	305/60R18
Impact test	275/35R18

2. Testing conditions and result : (Load = 726 kg)

(1) Dynamic cornering fatigue test :

Testing equipment approval number : Date of test : Day 2 Month 5 Year 2026

N	Bending moment during test (kN.m)	Number of test revolutions (Cycles)	Appearances concerning damage, etc. of disc wheel after test	Appearances concerning looseness in attached section , etc, of disc wheel after test	Judgment
1	4.114	100,000	None	None	OK
F used in calculation of bending moment 8.72 (kN) r = 0.372 (m) d = 0.054 (m) Calculated bending moment value 4.114 (kN.m)					

(2) Dynamic radial fatigue test : (Load = 726 kg)

Testing equipment approval number : Date of test : Day 5 Month 5 Year 2026

N	Air pressure prior to test (kg/cm ²)	Radial load during test (kN)	Number of test revolutions (Cycles)	Appearances concerning damage , etc . of disc wheel after test	Appearances concerning looseness in attached section , etc, of disc wheel after test	Judgment
1	4.6	19.63	500,000	None	None	OK
F used in calculation of radial load : 8.72 (kN) Calculated radial load Q = 19.63 (kN)						

(3) Impact test : (Load = 726 kg)

Testing equipment approval number : Date of test : Day 3 Month 5 Year 2026

N	Air pressure prior to test (Kg / cm ²)	Overall width (mm)	Weight mass (kgs)	Drop Hight (mm)	Impact degree (°)	Impact Position (°)	Damage to disc wheel Air leakage	Judgment
1	2.0	304.0	615.6	230.0	13	0	None	OK
2	2.0	304.0	615.6	230.0	13	150	None	

3. Overall assessment : Qualified : ☒ V Not qualified : ☐

4. Remark : (check with a circle, when applicable)

4.1 Indication site for load indication marks : Inner side : ☒ V Outer Side : ☒ V Rim : ☐ Di4.2 Rust prevention treatment : with 1 Painting ☒ V 2. Sputtering ☐ 3. Plating ☐

4. Anodizing