



2005 BMW 645i

\$8,990 87,308mi

WBAEK73425B325233

Tech specs

Drive unit 4.4 V8

Transmission hydraulic automatic

Drivetrain RWD

Body style convertible

Color beige

Condition: 31%

Summary

This convertible has significant issues across the board and should be approached with caution. On the engine, blue smoke appears after a few minutes of idling, which points to worn oil control rings — a costly internal repair that, left unaddressed, leads to rising oil consumption and worsening smoke. There are also active oil leaks from the oil pan, timing chain cover, and valve cover gasket; while not immediately critical, these should be addressed to avoid low-oil damage and a messy engine bay. Both engine banks show positive fuel trims (around +7% to +8%), meaning the engine is running lean — likely from low fuel pressure, clogged injectors, or inaccurate sensors — and active codes for the variable intake system (including a temperature warning) are present and should be diagnosed.

The steering and chassis show several concerns. The active (variable) steering system is not working, the warning light is on, and it logs hardware and initialization faults — this is a safety-relevant repair that can be expensive. There is also steering play (backlash) and a leaking power steering hose, plus the car pulls to the right. A leaking front right shock absorber and four mismatched tires affect ride quality, handling, and safety, and the uneven tires likely contribute to the pull. These items should be prioritized.

The body raises serious red flags. Paint thickness readings on the doors and especially the quarter panels (up to 550 microns) indicate heavy refinishing and likely filler, and nearly every panel on the car has been repainted — some at low quality, with cracks and uneven gaps. Most importantly, the trunk floor is rotted through due to an acid leak, which is structural corrosion that can spread and is difficult and costly to repair properly. The roof (soft top) is torn and the convertible top does not operate, both of which are expensive on this model.

Inside and electrically there are numerous smaller faults: a cracked dashboard, worn seats/steering wheel/gear selector, sticky door panels, loose parking brake boot, non-working driver's lumbar support, dead steering wheel heater (short circuit), and a faulty left fog light. The transmission shifts well with only minor oil residue at the pan. Overall this is a heavily used, heavily repaired example with one expensive engine issue (rings), a non-functioning steering system, and structural rust — budget

accordingly before purchase.

Signs of an odometer rollback

no sign

Technical condition

Engine		5 issues
Mechanical inspection		
Abnormal noise		no
Smoothness		ok
Smoke, excessive vapor in exhaust	blue smoke after idling for a few minutes - signs of oil control rings wear	
Crankcase gas pressure		normal
Cooling system	broken coolant level indicator in the expansion tank	
Exhaust system leaks		no
Belts		tension ok, no cracks
Oil leaks	oil pan leak, timing chain cover oil leak, valve cover gasket oil leak (bank 1)	
Oil condition		clean, level ok
Oil sludge		no
Signs of recent repair		not found
Computer diagnostic		
Electronic components	Active error code: 2B71 (variable intake system), 2B72 (variable intake system, temperature warning threshold)	
Voltage		13.6
Engine misfire		not detected
Fuel trim		7.0% (cyl. 1-4) / 7.8% (cyl. 5-8)
Automatic transmission		1 issue
Mechanical inspection		
Gear selector		ok
Abnormal Noise		no
Smoothness		ok
Slipping		no
Oil leaks	oil residue on the oil pan	
Signs of recent repair		not found
Computer diagnostic		
Electronic components		no errors

Drivetrain **ok**

Mechanical inspection

Oil leaks	no
Abnormal Noise	no
Vibration	no
Clunk	no
Boots	ok
CV Joints	ok
Wheel bearings	ok

Active and passive safety **ok**

Mechanical inspection

Seat belts	ok
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Computer diagnostic

ESC (Electronic stability control)	no error codes
SRS (Air bags)	no error codes

Brakes and tires **1 issue**

Mechanical inspection

Excessive rotors wear	no
Excessive pads wear	no
Braking force	even
Fluid leaks	no
Brake fluid	clean, level ok
Excessive or abnormal tire wear	all tires are different
Parking brake	ok

Computer diagnostic

ABS (Anti-Lock Braking System)	no error codes
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Suspension **2 issues**

Mechanical inspection

Shock absorbers	front right shock absorber is leaking
Springs	ok
Anti-roll bars	ok
Joints (visual control)	ok
Rubber bushings	no cracks

Abnormal noise no

Steering pull pulls to the right

Computer diagnostic

Dynamic drive no error codes

HVAC

ok

Mechanical inspection

Fan bearing quiet, no vibration

Cooling ok

Heating ok

Flow distribution ok

A/C Compressor noises normal

Computer diagnostic

Electronic components no error codes

Steering (hydraulic power)

3 issues

Mechanical inspection

Steering backlash present

Abnormal noise no

Steering wheel force normal

Boots ok

Fluid condition clean, level ok

Fluid leaks power steering hose leak

Computer diagnostic

Active steering Active error code: 612C (hardware fault), 614A (motor position angle not initialized) - the system doesn't work, the warning light is on

Equipment

5 issues

Mechanical inspection

Power windows ok

Lights left fog light doesn't work

Windshield wiper ok

Windshield washer ok

Door locks ok

Power mirrors ok

Dashboard ok

Seats driver's lumbar support adjustment doesn't work

Key fob ok

Convertible top doesn't work

Computer diagnostic

Lights module Active error code: 930E (left fog lamp, faulty)

Switch center, steering column Active error code: 94F2 (steering wheel heating: heating mat, short circuit) - steering wheel heating doesn't work

Doors no error codes

Convertible top module no error codes

Amplifier no error codes

CD changer no error codes

Audio system controller no error codes

Anti-theft system no error codes

Car access system no error codes

Rain/light sensor no error codes

Instrument cluster no error codes

Park distance control no error codes

Center console no error codes

Footwell module no error codes

Central information display no error codes

Power module no error codes

Body condition

Major body damages 1 issue

Structural damage no

Flood damage no

Significant corrosion rotten floor in the trunk (acid leak)

Entire car repainted no

Minor body damages 10 issues

Location	Damage
Front bumper	repainted, scratched, uneven gaps
Roof	torn
Front right fender	repainted, cracked
Front right door	repainted, scratched
Right quarter panel	repainted

Trunk lid	repainted (low quality)
Rear bumper	repainted, cracked
Left quarter panel	repainted, scratched
Front left door	repainted, scratched, dented
Front left fender	repainted, cracked

Coating thickness

Normal coating thickness 80–160 μm . A thicker layer indicates overpainting; thinner indicates a non-factory paint job or excessive wear. Measured only on metal (steel/aluminium) panels.

Body part	Left side (μm)	Right side (μm)
Front fender	N/a	N/a
Door	350	230
Quarter panel	410	550
Rocker panel	80	80

Body part	Top / rear (μm)
Hood	100
Roof	N/a
Trunk lid	N/a

Interior

Interior damages		2 issues
Noticeable dirt	no	
Worn out parts	steering wheel, seats, gear selector	
Unusual odor	no	
Damaged parts	cracked dashboard, dented door jambs, sticky door panels, loose parking brake boot	
Water leaks	no	

Documents

Service history	no
Last oil change	unknown
Number of keys	1
Owner's manual	yes
Warranty due	no warranty
Number of owners	5

Inspection date: Jun 3 2023

CarAdvisors — Metro Atlanta, GA

All photos

Main photo



Technical photos





possible transmission fluid leak



broken coolant level indicator



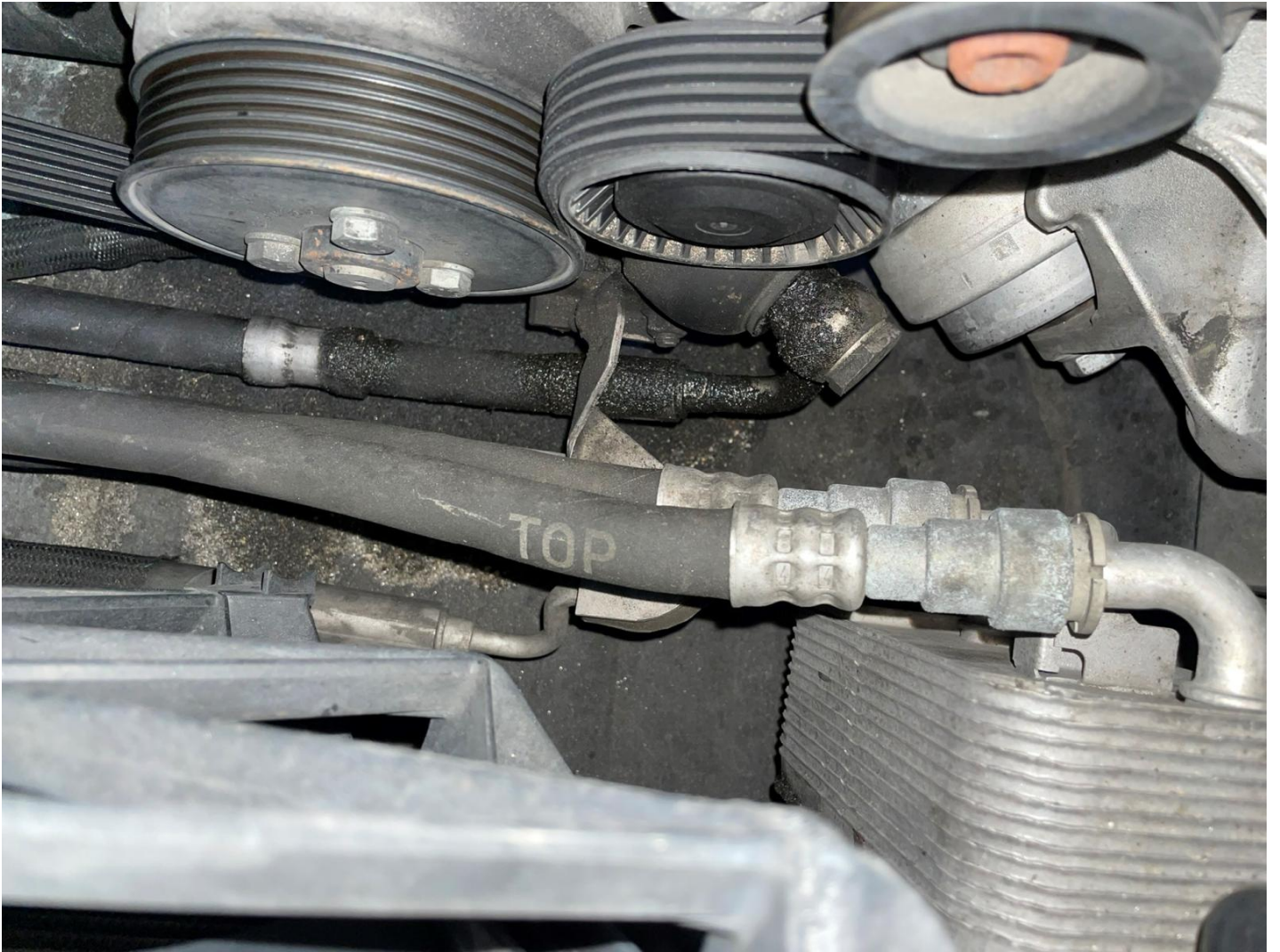
timing chain cover oil leak



timing chain cover oil leak



timing chain cover oil leak



power steering hose leak




shock absorber oil leak



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 **Active steering**

Active steering malfunction
A change in steering behavior or steering wheel angle is possible. Continued driving is possible.

▲ **Active steering malfunction!**





engine smoke





front right tire



rear right tire



front brakes



rear brakes

Significant corrosion





Body damage: Front bumper











Body damage: Roof

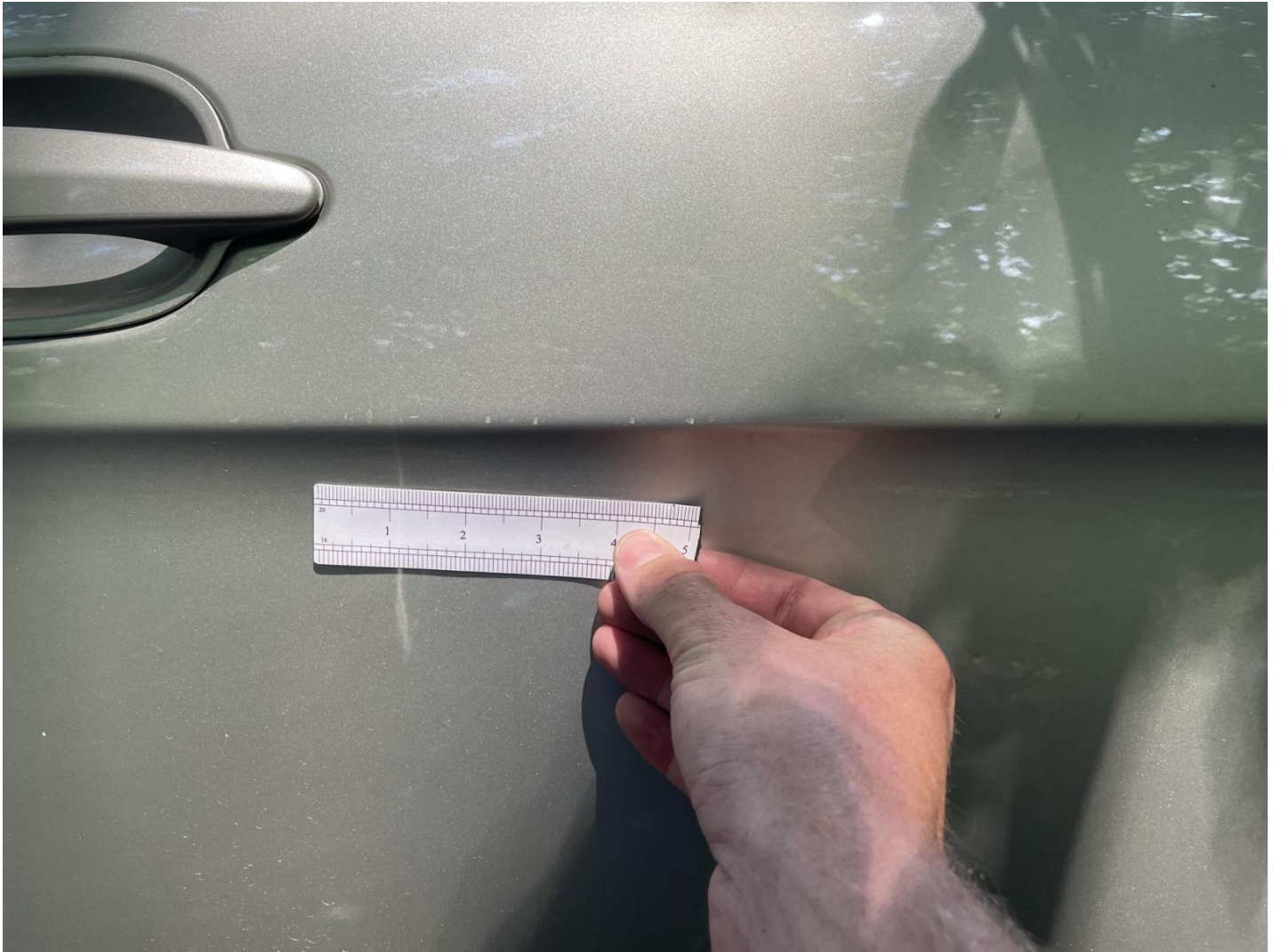




Body damage: Front right fender



Body damage: Front right door





Body damage: Trunk lid



Body damage: Rear bumper

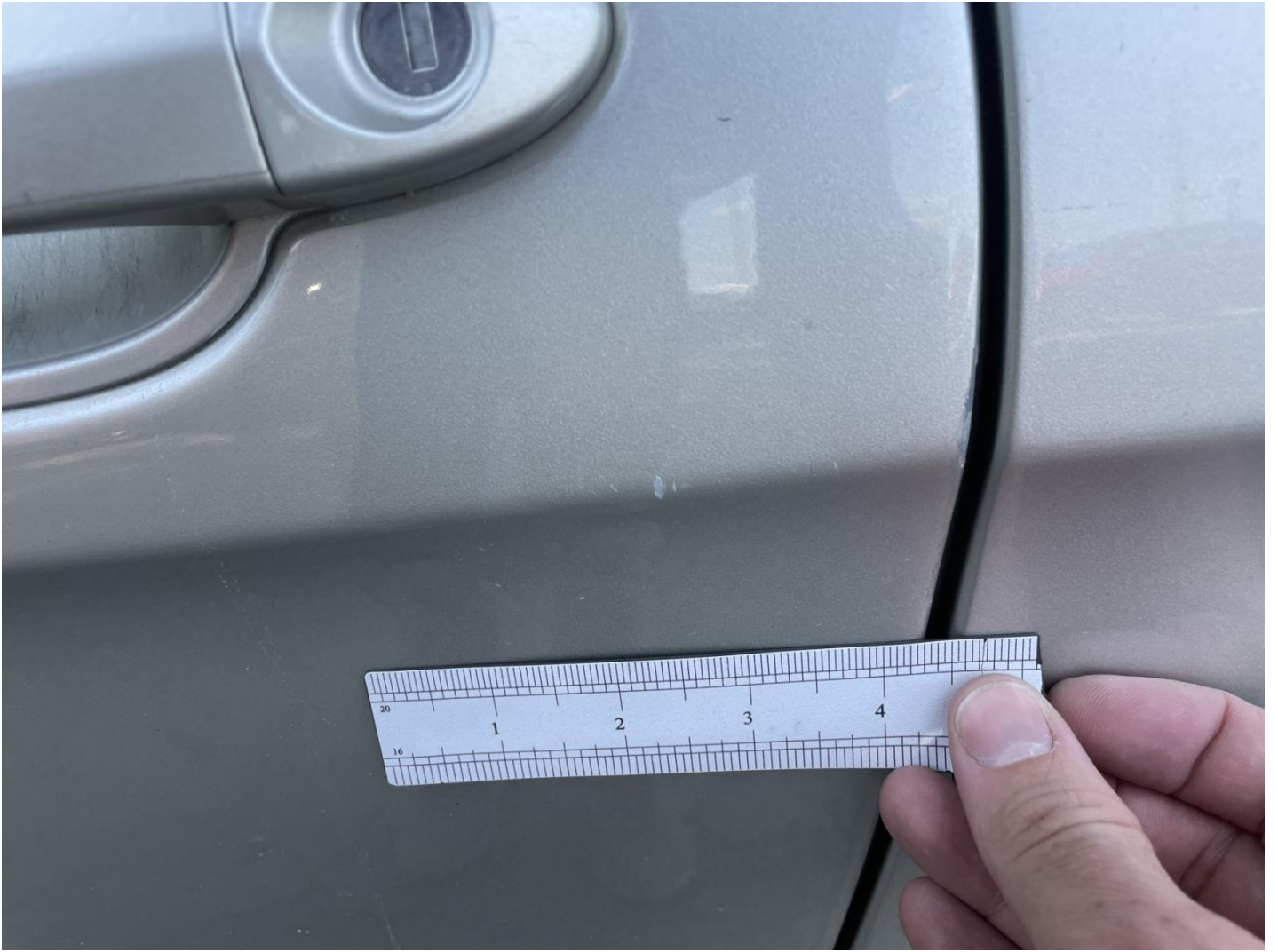




Body damage: Left quarter panel



Body damage: Front left door







Body damage: Front left fender



Body photos

























Interior - worn out parts







Interior - damaged parts













6451A
MFD BY BAYERISCHE MOTORENWERKE AG
GVWR 4971 lbs 2255 kg
GAWR FRONT 2381 lbs 1080 kg
REAR 2778 lbs 1260 kg
VEHICLE TYPE: PASSENGER CAR
01/05
THIS VEHICLE CONFORMS TO ALL APPLICABLE U.S. FEDERAL MOTOR VEHICLE SAFETY BUMPER AND THEFT PREVENTION STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE
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TIRE
SEATING CAPA
The combined weight
ORIGINAL TIRE SIZE
245/40 R 19
275/35 R 19
COMPACT SP





Interior photos







FM AM **WB** CD
◀ Manual ▶
Set
88 90 92 94 96 98 100 102 104 106 108
97.7 FM
▲ Fasten safety belts

















Documents

645iA VEHICLE TYPE: PASSENGER CAR
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GVWR 4971 lbs 2255 kg
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TIRE AND SEATING CAPACITY

The combined weight of occupants

ORIGINAL TIRE SIZE	COLD TIRE
245/40 R 19	FRONT
275/35 R 19	REAR
COMPACT SPARE TIRE	COLD TIRE
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