



REPORT SUMMARY

This section provides an overview of the general information and diagnostic scan results of the vehicle. Safety ratings, recalls, and crash records stored onboard are also shown here.



Market Value Range

CAD \$31,615.01 - \$39,597.01



Diagnostic Scan Results



8 DTCs Found. Emissions Test Failed.



Safety Issues / Ratings



3 Recalls Found. Safety Ratings Alerts: Marginal Rating for Frontal Small Overlap. Structural/Frame Damage. Even minor damage, if not repaired properly, can seriously degrade a car's ability to protect you in an accident.



Diagnostic Accident History



Prior Accident Detected: Moderately Severe



Recommended Action / Notes

Consider a pre-purchase inspection by a licensed mechanic to make sure the vehicle was repaired properly.



MARKET VALUE

This section provides an estimated market value for 2015 BMW 5 Series (528i xDrive). Estimate is based on 182 similar vehicles sold between 2018-06-15 and 2018-12-08.

Assumed Milage

61,080 km

Market Value Range

CAD \$31,615.01 - \$39,597.01

Time Period

6 Months

Estimate Certainty

99%



VEHICLE HEALTH STATUS

This section lists emissions-related information, retrieved Diagnostic Trouble Codes (DTCs), and respective Freeze Frame data, if any.

Emissions Test Failed: DTC(s) Present

HEALTH
GRADE

D-

Emissions Inspection Monitors

If a monitor is "Not Ready", the vehicle needs to be driven more for the monitor to collect data. "Unsupported" refers to any monitor that is unavailable on the vehicle and does not cause the vehicle to fail an emissions test.

Misfire	Ready	Secondary Air System	Unsupported
Fuel System	Ready	A/C Refrigerant	Unsupported
Component	Ready	Oxygen Sensor	Ready
Catalyst	Ready	Oxygen Sensor Heater	Ready
Heated Catalyst	Unsupported	EGR / VVT System	Ready
Evaporative System	Ready		

Diagnostic Trouble Codes (DTCs)

Diagnostic trouble codes retrieved from various control modules of the vehicle.



Engine Control Module (ECM)



8 Codes Found: P0031, P0037, P0598, P15D9, P15ED, P15F8, P2088, P2090

Error Code: P0031

Definition: Heated Oxygen Sensor (HO2S) Heater Circuit Low Voltage Bank 1 Sensor 1

Error Code: P0037

Definition: Heated Oxygen Sensor (HO2S) Heater Circuit Low Voltage Bank 1 Sensor 2

Error Code: P0598

Definition: Thermostat Heater Control Circuit Low

Error Code: P15D9

Definition: Terminal 15N_1 / 87_1 Power Supply Circuit

Error Code: P15ED

Definition: Terminal 15N_2 / 87_2 Power Supply Circuit

Error Code: P15F8

Definition: Terminal 15N_3 / 87_3 Power Supply Circuit

Error Code: P2088

Definition: 'A' Camshaft Position Actuator Control Circuit Low (Bank 1)

Error Code: P2090

Definition: 'B' Camshaft Position Actuator Control Circuit Low (Bank 1)



Transmission Control Module (TCM)



No Issues Found

Freeze Frame Data

Vehicle status when DTCs were set.

No freeze frame data for DTCs (Diagnostic Trouble Codes) were retrieved from the ECM (Engine Control Module) or TCM (Transmission Control Module).



RECALLS / SAFETY RATINGS

This section lists any outstanding recalls, known safety ratings & issues.

Safety Recalls

Vehicle safety recall information is received from Transport Canada and includes all known recalls associated with this particular vehicle model.

Recal Date: 2015-07-30

Recall Number: 2015343

Affected System: Electrical

Description: Certain vehicles, which were parked at the port of entry in Halifax during the ice storms in February 2015, may have been exposed to excessive standing water and salt for an extended period due to this isolated environmental incident. Certain MINI models could have corrosion at the starter motor power supply cable connectors, which could lead to the inability to restart the engine following an engine shutdown by the start-stop (MSA) system, increasing the risk of crash causing injury in a traffic situation. On certain BMW models, the lubrication of some internal components within the steering rack may have been exposed to excessive water or salt which could result in higher than normal steering effort or steering binding, increasing the risk of a crash causing injury and/or damage to property. In addition, electrical wires and/or connectors in all affected vehicles may have been exposed to water or salt, which could lead to increased electrical system resistance, and increase the risk of fire causing injury and/or damage to property.

Correction: Owners should contact their selling Retailer regarding this recall. Affected vehicles will be inspected. Some vehicles will be taken out of service immediately and owners will be provided with temporary transportation until a new replacement vehicle is available. All other vehicles are cleared of this safety concern and may continue to be driven until a new replacement vehicle is available. Due to potential concerns about long term vehicle quality, all affected vehicles will ultimately be removed from service.

Recal Date: 2016-07-15

Recall Number: 2016364

Affected System: Powertrain

Description: On certain M5 and M6 series vehicles, the rear driveshaft may have been inadequately welded during manufacturing. Over time, this could result in the driveshaft potentially fracturing, which would result in a loss of propulsion which, in conjunction with traffic and road conditions, and the driver's reactions, could increase the risk of a crash causing injury and/or property damage.

Correction: Dealers will inspect the driveshaft and, if necessary, replace it.

Recal Date: 2018-10-26
Recall Number: 2018587
Affected System: Engine





Description: On certain vehicles, the cooler for Exhaust Gas Recirculation (EGR) module may develop an internal leak and coolant could mix with diesel engine soot/sediment. In rare circumstances, this condition could result in smouldering particles and lead to the melting of the intake manifold, increasing the risk of a fire causing injury and/or damage to property.

Correction: Dealers will inspect the EGR cooler, and if necessary, replace it. If it is determined that the EGR cooler has leaked internally, the intake manifold will also be replaced. The EGR pipe connecting the cooler to the manifold will be cleaned.

Note: An operator may be alerted to this condition by one or more of the following symptoms: A warning symbol in the instrument cluster displaying a loss of engine coolant, a reduction in engine power, an unpleasant odour (exhaust gas), an unusual noise from the engine compartment, and/or smoke from the engine compartment.

IIHS Crashworthiness / Safety Ratings

Insurance Institute for Highway Safety (IIHS) in the US publishes vehicle safety ratings based on actual crash tests. In each category, the possible ratings are: Good, Acceptable, Marginal, and Poor. Further vehicle research on safety ratings and features, reviews, tips and more can be found here: www.carfax.com/car-research and www.iihs.org/iihs/ratings.

Frontal Small Overlap	 Marginal	Side	 Good
Frontal Moderate Overlap	 Good	Rollover	 Good



PRIOR ACCIDENT DETECTED

This section provides predictive loss and repair estimate/cost information. AI inputs: Trusted Repair Estimates, Max Delta-V, Impact Angle, Vehicle Model/Specs (weight, stiffness), Airbag Deployment status, DTCs, Damage Area/Level/Photographs (of similar severity as found on this vehicle, if any).

Damage Information / Repair Estimate

Most passenger cars are capable of absorbing bumper to bumper contacts without appreciable damage at low speeds. Structural damage thresholds range from closing velocities of 7.7 km/h (4.8 mph) to 16.3 km/h (10.1 mph) and Delta-Vs ranging from 12.9 km/h (8.0 mph) to 19.3 km/h (12.0 mph), depending on vehicle specifications and its impact configuration (Croft et al., 2005).

Most Severe Accident Detected	Frontal (Right)
Approximate Repair Estimate	CAD \$25,258.46
Likelihood of Structural/Frame Damage	Likely
Delta-V (Industry Severity Unit)	19.00 km/h



CRASH DATA HISTORY

This section lists crash data records stored on the vehicle's event data recorder. The date of crash

Recency / Sequence	Crash Severity	Type / Damage Area	Sudden Speed Change	Force of Impact (g-Force)	Impact Angle	Engine Starts Since Event
Most Recent	Moderate Severity	Frontal (Right)	-19.00 km/h	5.38 g	25 degrees (1 o'Clock)	19

How To Interpret This Information

The crash severity (acceleration / g-force) measured by the airbag module accelerometer reached a maximum value of 19.00 km/h within 100 milliseconds, which is considered "moderately severe" in terms of severity. Damage occurred on the left side of the vehicle. The vehicle's ignition was turned on 19 times between the incident and crash data download; this number can be used as an indication of event recency.

Crash events are sorted and displayed in order of recency. It is possible for an airbag module to contain multiple records for a single event. In that case, event recency will be further marked by "1st Impact", "2nd Impact"...etc., with "1st Impact" being the initial record in sequence.



VEHICLE SPECIFICATIONS

This section lists basic vehicle details encoded by the VIN.

VIN	WBA5A7C52FD620642	Year	2015
Make	BMW	Model	5 Series
Trim	528i xDrive	Engine	3.0L L6 DOHC 24V
Made In	Germany	Style	N/A
Steering Type	R&P	Anti-Brake System	4-Wheel ABS
Fuel Type	Premium Unleaded (Required)	Fuel Capacity	70 L
Overall Length	4912 mm	Overall Width	1859 mm
Overall Height	1463 mm	Standard Seating	5
Curb Weight	1819 kg	Gross Weight	2350 kg
Highway Mileage	14 km/L	City Mileage	9 km/L
Invoice Price	\$63,141	MSRP	\$67,925

Event Data Disclaimer

Users of the Collision Sciences service and reviewers of the reports and exported data shall ensure that data and information supplied is applicable to the vehicle, vehicle's system(s) and the vehicle ECU. Collision Sciences Inc. and all its directors, officers, employees and members shall not be liable for damages arising out of or related to incorrect, incomplete or misinterpreted software and/or data. Collision Sciences Inc. expressly excludes all liability for incidental, consequential, special or punitive damages arising from or related to the online services, evidence logistics, EDR data, EDR software or use thereof.