



# Technical Bulletin

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Model(s)	Year(s)	Engine Code	Trans. Code	VIN Range From	VIN Range To
All (Except Routan)	2000-2014	All	All	All	All

**17 13 03** October 3, 2013 **2017813** Supersedes T.B. V171302 dated July 1, 2013 to remove "Tip" about vehicles without oil leaks, and it being necessary to contact the helpline before beginning the procedure.

## Oil Consumption Measurement

Customer states oil consumption is higher than the Volkswagen oil consumption standard of up to 0.5 quarts per 600 miles, or 0.5 liters per 1000 km.

## Technical Background

In order to provide effective lubrication and cooling of internal engine components, all internal combustion engines consume a certain amount of engine oil. Oil consumption varies from engine to engine and may change significantly over the life of the engine.

Typically, engines with specified break-in periods consume more oil during the break-in period, and the oil consumption will stabilize after the break-in period. Refer to the *Owners Manual* for specific break-in procedures.

Under normal conditions, the rate of oil consumption depends on the quality and viscosity of the oil, the RPM at which the engine is operated, the ambient temperature and road conditions.

Further factors include the amount of oil dilution from water condensation or fuel residue and the oxidation level of the oil.

## Production Solution

Not applicable.

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## Service

Before testing or attempting repair, explain Technical Background to the customer.

Prior to beginning Part # 1 of this test, visually inspect the engine for any signs of leaks. If leaks are present, contact Volkswagen Technical Assistance Center with findings.

If the customer complains that their engine is apparently consuming oil in excess of the Volkswagen oil consumption standard above, an oil consumption test must be performed using the test plan in the VAS 5051B, 5052/A, 6150/X, 6160 tester, **before any repair is carried out.**

### Oil Consumption Test, Part # 1

Using the VAS tester, navigate to the Oil consumption measurement using one of the provided methods below:

#### ODIS

- Diagnosis Operating Mode: Special functions top tab >> 17 – Sub systems, marginal conditions >> 01 – Oil consumption measurement >> Select “Perform Test” button.

#### VAS-PC

- GFF- Function/Component Selection: Powertrain >> Engine >> Systems capable of self diagnosis >> Motronic engine control >> Functions>> General functions>> Oil consumption measurements.
  - GFF- Function/Component Selection: Drivetrain >> Engine >> Lubrication >> Sub-systems, marginal conditions >> Oil consumption measurements.
1. Follow VAS 5051B, 5052/A, 6150/X, 6160 test protocol exactly, and document all information on oil measurement sheets.
  2. Archive the VAS 5051B, 5052/A, 6150/X, 6160 diagnostic log and oil measurement test sheet (attached) in the dealership vehicle service file.
  3. Return the vehicle to the customer and advise that the vehicle must be driven a minimum of 630 miles (1014 km) before part #2 of the oil consumption test can be performed.
  4. Advise the customer that if the low oil level warning light comes on before the 630 mile (1014 km) test is completed, the vehicle must be taken directly to the Dealership for part # 2 of the oil consumption test, regardless of the miles accumulated. The customer should not add any oil.

### Oil Consumption Test, Part # 2

1. When the customer returns the vehicle to the dealership after a minimum of 630 miles (1014 km), complete part # 2 of the oil consumption test plan using ODIS or the VAS 5051B, 5052/A, 6150/X, 6160.
2. Contact the Volkswagen Technical Assistance Center (TACS) with the results.
3. The results and diagnostic log must be sent to the Volkswagen Technical Assistance Center (TACS) before any repairs are performed.



#### **Note:**

GFF oil consumption test can also be used for older engines not listed in the GFF test plan, since the test and procedure is identical for all engines. Please use any current engine code.

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## Warranty

**!** **Note:**

If the result of the test is that the oil consumption is within the permissible tolerance, another oil consumption test on the same engine will not be covered under Warranty within the next 25,000 miles (40,000 km).

<b>To determine if this procedure is covered under Warranty, always refer to the Warranty Policies and Procedures Manual <sup>1)</sup></b>					
Model(s)	Year(s)	Eng. Code(s)	Trans. Code(s)	VIN Range From	VIN Range To
All Vehicles (except Routan)	2000-2014	All	All	All	All
<b>SAGA Coding</b>					
<b>Claim Type:</b>			<b>Use applicable Claim Type <sup>1)</sup></b>		
<b>Service Number:</b>	<b>Damage Code</b>	<b>HST</b>	<b>Damage Location (Depends on Service No.)</b>		
1716	0010	--	Use applicable when indicated in ElsaWeb (L/R)		
<b>Parts Manufacturer</b>	Phaeton, Golf, Rabbit, GTI, R32, Eos, Passat Sedan, Passat Wagon, Tiguan, Touareg, CC		WWO <sup>2)</sup>		
	Jetta, Beetle, Beetle Convertible, Jetta Wagon, Golf Wagon, Jetta SportWagen		3ME <sup>2)</sup>		
	2012-2014 Passat		TX6 <sup>2)</sup>		
<b>Causal Part: Select Labor Operation</b>			17160199		
<b>Labor Operation <sup>3)</sup> : Oil consumption test part # 1</b>			17160199 = 90 TU		
<b>Labor Operation <sup>3)</sup> : Oil consumption test part # 2</b>			17160299 = 60 TU		
<b>Diagnostic Time <sup>4)</sup></b>					



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GFF Time expenditure	01500000 = XX TU max.	NO
Road Test	01210002 = 00 TU 01210004 = 00 TU	NO
Technical Diagnosis	01320000 = XX TU max.	NO
Claim Comment: Input "As per Technical Bulletin 2017813" in comment section of Warranty Claim.		
<sup>1)</sup> Vehicle may be outside any Warranty in which case this Technical Bulletin is informational only. <sup>2)</sup> Code per warranty vendor code policy. <sup>3)</sup> Labor Time Units (TUs) are subject to change with Elsa updates. <sup>4)</sup> Documentation required per Warranty Policy Procedures Manual.		

## Required Parts and Tools

Part Description	Part No:
Engine Oil	See ETKA

Tool Description	Tool No:
VAS Diagnostic Tool	VAS 5051B, VAS 5052A, VAS 6150/X & VAS 6160/X with: ODIS Service 2.0.0 or higher with current online updates
Midtronics Battery tester/charger	InCharge 940 (INC-940)
Digital Scale	CPWP15

Digital scale with 15 kilogram capacity and 5 gram accuracy, tool number CPWP15, can be obtained by contacting the VW Tools and Equipment Program at [www.tools.vw.com](http://www.tools.vw.com) or by calling 1-800-892-9650.



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## Additional Information

**All part and service references provided in this Technical Bulletin are subject to change and/or removal. Always check with your Parts Dept. and Repair Manuals for the latest information.**

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# Oil Consumption Measurement

Date: \_\_\_\_\_

## 1. Dealer Data

Importer Number: \_\_\_\_\_ Dealer number: \_\_\_\_\_

Contact person: \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

## 2. Vehicle Data

Vehicle Identification Number (VIN): \_\_\_\_\_

Warranty start date: \_\_\_\_\_

Model: \_\_\_\_\_

Engine code: \_\_\_\_\_

License plate number: \_\_\_\_\_

## 3. Customer report

Oil consumption as per customer: \_\_\_\_\_ quart(s)/1000

Complaint since (date/mileage): \_\_\_\_\_

Driving profile:

\_\_\_\_\_ % City

\_\_\_\_\_ % Country

\_\_\_\_\_ % Highway

## 4. Measuring data

Oil fill amount per ServiceNet, Maintenance, fluid capacity chart \_\_\_\_\_ quarts

Filled oil amount before road test \_\_\_\_\_ grams

Drained amount of oil after road test \_\_\_\_\_ grams

Road test: Start: \_\_\_\_\_ Miles

END: \_\_\_\_\_ Miles

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= \_\_\_\_\_ Miles driven

Calculated oil consumption \_\_\_\_\_ quart(s) / 1000 miles

Date: _____	Signature: _____
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