

Technical product information

Topic	New Continental GT / GTC, New Flying Spur and Bentayga Speed - Low Oil Pressure
Market area	Bentley: worldwide (2WBE)
Brand	Bentley
Transaction No.	2058423/2
Level	EH
Status	Approval
Release date	

New customer code

Object of complaint	Complaint type	Position
information, navigation, communication, entertainment -> symbolic warning indicators -> oil pressure loss warning	functionality -> activates	

New workshop code

Object of complaint	Complaint type	Position
vehicle service -> IT systems -> SVM (software version	control units, services -> error	

Vehicle data

New Continental GT / GTC

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
3S31AB	2018	E	Cont GT(MSB) BY634	DDBB	SVZ	RVE
3S31AB	2018	E	Cont GT(MSB) BY634	DDBB	SVZ	TNJ
3S31BB	2018	E	Cont GT(MSB) BY634	DDBD	SVZ	TNJ
3S31BB	2018	E	Cont GT(MSB) BY634	DDBD	TPT	TNJ
3S31BB	2018	E	Cont GT(MSB) BY634	DDBD	TUP	TNJ
3S31BB	2019	E	Cont GT(MSB) BY634	DDBD	SVZ	TNJ
3S31BB	2019	E	Cont GT(MSB) BY634	DDBD	TUP	TNJ
3S31BB	2019	E	Cont GT(MSB) BY634	DDBD	TPT	TNJ
3S31BB	2020	E	Cont GT(MSB) BY634	DDBD	TPT	TNJ
3S31BB	2020	E	Cont GT(MSB) BY634	DDBD	TUP	TNJ
3S31BB	2020	E	Cont GT(MSB) BY634	DDBD	SVZ	TNJ
3S41BB	2019	E	Cont GTC(MSB)BY635	DDBD	TUP	TNJ
3S41BB	2019	E	Cont GTC(MSB)BY635	DDBD	TPT	TNJ
3S41BB	2019	E	Cont GTC(MSB)BY635	DDBD	SVZ	TNJ
3S41BB	2020	E	Cont GTC(MSB)BY635	DDBD	SVZ	TNJ
3S41BB	2020	E	Cont GTC(MSB)BY635	DDBD	TPT	TNJ
3S41BB	2020	E	Cont GTC(MSB)BY635	DDBD	TUP	TNJ

Bentayga Speed

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
4V14G9	2020	E	SUV SPEED BY636	DDBD	SHT	QUS

Flying Spur

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
ZG2*	2020	E		*	*	*

Documents

Document name
master.xml

Customer statement / workshop findings

Warning on Driver Instrument Panel (DIP) "Oil pressure too low".

Diagnostic Trouble Codes (DTC) "P052400: Engine Oil Pressure Too Low" and/or "P15AA00: Engine oil pressure - Lower limit not reached" stored in the Master Engine Control Unit (ECU)

Technical background

There have been several Customer complaints of low oil pressure warning displayed on the DIP, DTC's relating to oil pressure may also be stored within the Master ECU.

The root cause of the warning and DTC's are not yet fully understood, however, for all complaints so far, changing the engine lubricating oil and engine oil filter normally resolves the concern.

Production change

Currently under investigation.

Measure

With a confirmed Customer complaint of low oil pressure warning displayed on the DIP and Diagnostic Trouble Codes "P052400: Engine Oil Pressure Too Low" and/or "P15AA00: Engine oil pressure - Lower limit not reached" stored in the Master ECU, raise a full technical DISS query and proceed with this document.

NOTE: DO NOT CONTINUE WITH THIS DOCUMENT IF THE ENGINE EXHIBITS ANY ABNORMAL MECHANICAL NOISE OR HAS AN ENGINE LUBRICATING OIL LEAK – SEEK FURTHER ADVICE VIA THE DISS QUERY.

Section 1

Using the Bentley approved diagnostic tool take a vehicle Diagnostic Log and attach to the DISS query.

Read Measured Values

Note: - Measured Values IDE02756 – "*Number of manual engine starts*" and IDE02757 – "*Number of automatic engine starts*" are currently only available for Continental and Flying Spur series vehicles, DO NOT attempt to record Measured Values for Bentayga.

Read Measured Values IDE02756 and IDE02757 as follows.

Connect the Bentley approved diagnostic tool to the On Board Diagnostic (OBD) socket.

From the desktop, launch *Off-board Diagnostic Information System Service* (ODIS).

Select "Start Diagnosis" and follow the on screen prompts.

Select "Control units" and then "*Engine Control Module 1 (01 – Engine Control Module 1)*" – figure 1.

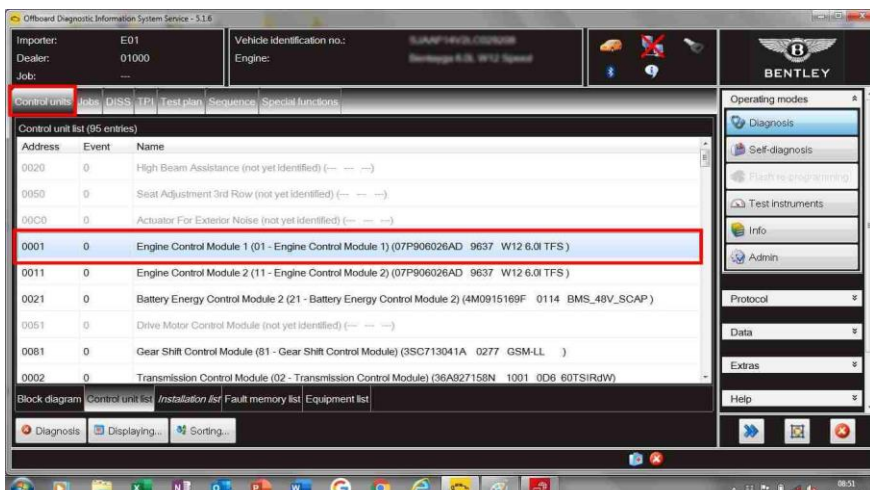


Figure 1

“Right click” on “Engine Control Module 1 (01 – Engine Control Module 1)” and select “Guided functions” – figure 2.

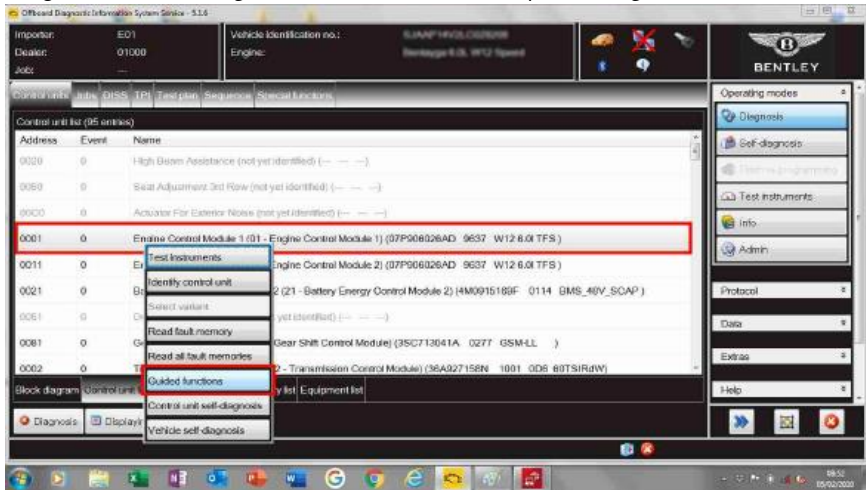


Figure 2
Select “Read measured values” and then “Execute” – figure 3.

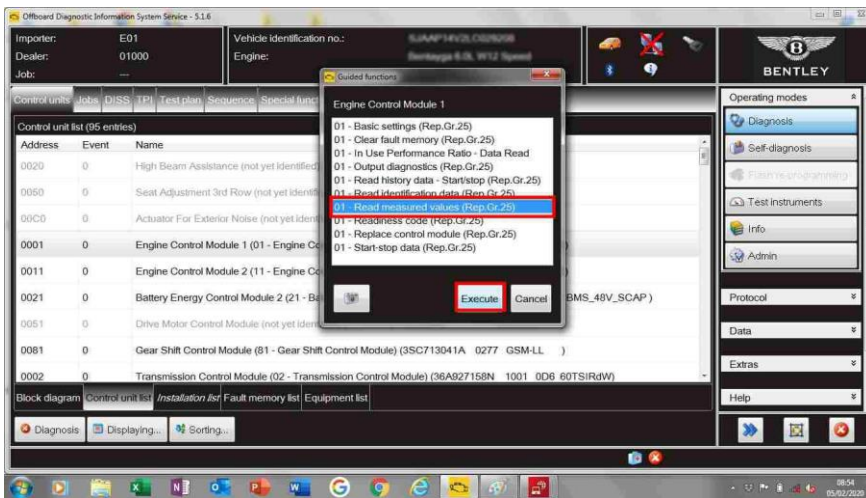


Figure 3
Select “IDE02756” and “IDE02757” and then “OK” – figure 4.

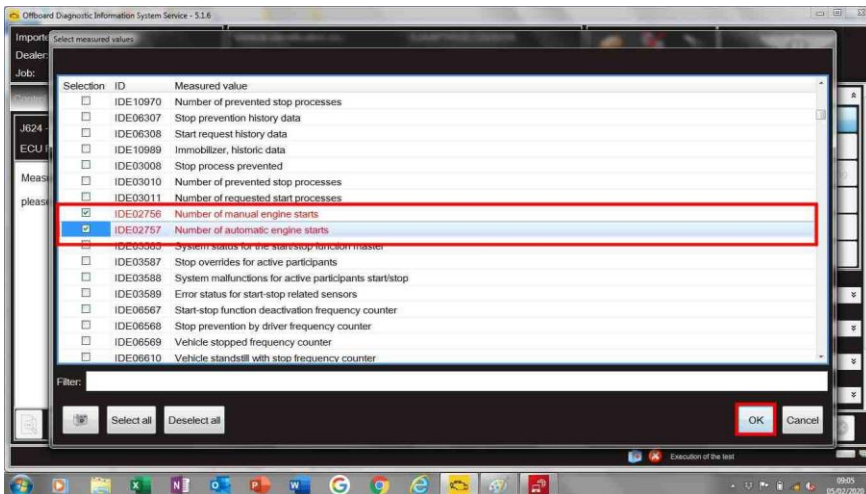


Figure 4
Note the values of “IDE02756” and “IDE02757” and add this information to the DISS query, select “OK” – figure 5.

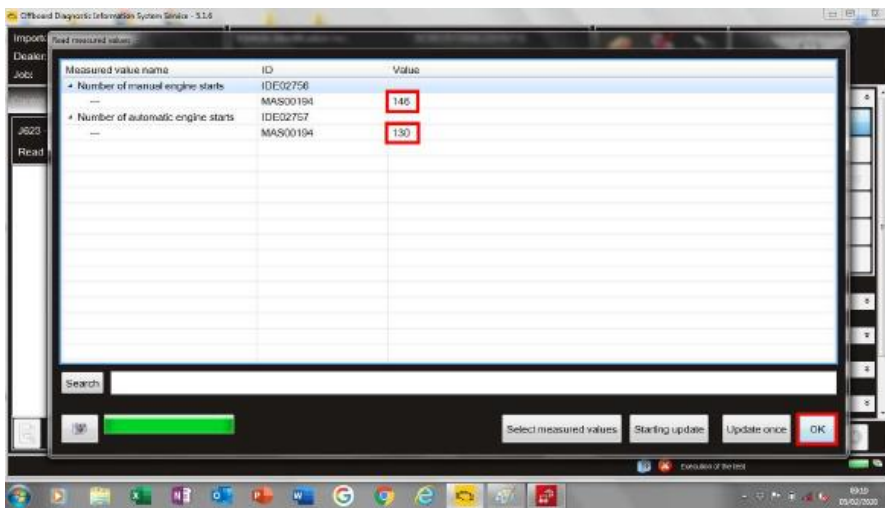


Figure 5

Select "Done/Continue" and then exit the application – figure 6.

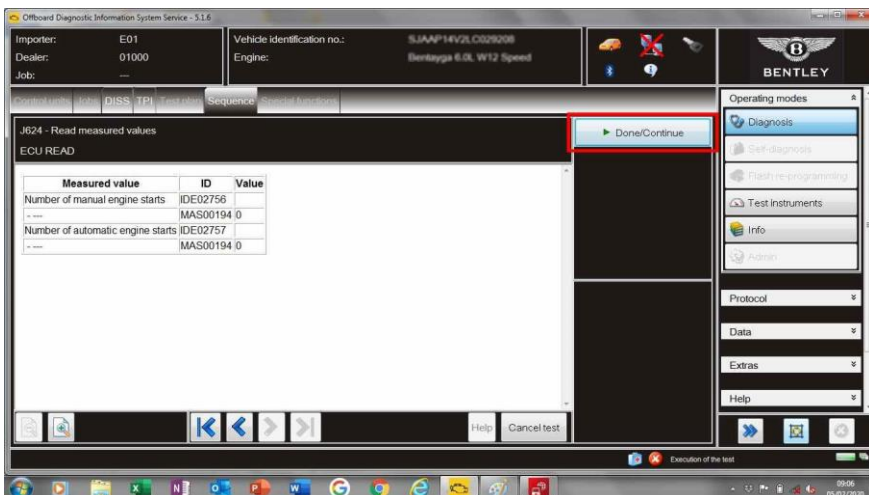


Figure 6

- Provide a detailed description of the Customer drive cycle when the symptom occurs – add information to the DISS query.
- Check and confirm the engine lubricating oil level is correct, refer to *Repair Group 17 Engine Lubrication / 6.0L W12 TSI / Engine oil – To check* – add result to the DISS query.
- Measure the actual engine lubricating oil pressure, refer to *Repair Group 17 Engine Lubrication / 6.0L W12 TSI / Engine oil pressure – To check* - add result to the DISS query.

IMPORTANT:- If this is a repeat visit by the customer for an engine lubricating oil pressure warning, proceed to Section 2.

- Using a suitable, clean and sealable container, take an engine lubricating oil sample, this may be required for analysis (minimum 250ml).
- Renew the engine lubricating oil and engine lubricating oil filter refer to *Repair Group 17 Engine Lubrication / 6.0L W12 TSI / Engine oil and filter – To renew* – see note below for important information.

Note: - Ensure the engine lubricating oil is still hot when draining.

The engine lubricating oil should be drained through a fine gauze filter, once fully drained check the filter for oil contaminants or particles. If contaminants or particles are found place into a clean sealed container and retain - seek Technical advice via the DISS query. If contaminants or particles are not evident proceed with this document.

- Retain the original engine lubricating oil filter, it may be required for analysis. Use a suitable sealed container to prevent contamination.
- Conduct a road test, as follows:-
- The road test should be a minimum of 30km (18.6 miles)
- Drive the vehicle until normal Engine coolant operating temperature is achieved – c:90°C.
- The following procedure will cycle the engine lubricating oil pump from low duty to high duty:-
- Observing local highway rules and regulations, find a safe and suitable location to conduct the following:-
- Place the transmission selector lever into Manual gear mode "M", proceed to drive the vehicle, use the steering wheel gear selector

paddles to select gears, when in second gear gently accelerate from 1500rpm to 4500rpm holding second gear, repeat this procedure fifteen times.

- Using transmission Drive mode "D" and sport mode, observe local highway rules and regulations, accelerate from standstill whilst depressing the accelerator pedal a maximum 25 to 50% of travel - repeat five times. *Do not use 100% accelerator pedal input during this test.*



Caution: For Continental Series vehicles

- If Sport mode is selected on the drive dynamics control, the Electronic Stability Control (ESC) is switched off, if the driver has selected manual gear mode "M" the transmission will not automatically up shift to the next gear.
- Once the road test is complete use the Bentley approved diagnostic tool to take a vehicle Diagnostic Log and attach to the DISS query.
- If, during the road test the low oil pressure warning has NOT displayed on the DIP and Diagnostic Trouble Codes "*P052400: Engine Oil Pressure Too Low*" and/or "*P15AA00: Engine oil pressure - Lower limit not reached*" are NOT stored within the ECU the vehicle should be handed back to the Customer.
- If, during the road test the low oil pressure warning HAS displayed on the DIP and Diagnostic Trouble Codes "*P052400: Engine Oil Pressure Too Low*" and/or "*P15AA00: Engine oil pressure - Lower limit not reached*" ARE stored within the ECU proceed to Section 2 of this document.

Only continue to Section 2 of this document if the low oil pressure warning has reappeared on the DIP during the Section 1 road test.

Section 2 - Repeat visit by the customer for engine lubricating oil pressure warning or oil pressure warning has reappeared on the DIP during the Section 1 road test.

If this is a repeat visit by the customer for an engine lubricating oil pressure warning, attach a current diagnostic log to the DISS query.

A sample of Engine lubricating oil (minimum 250ml) should be taken and retained for further analysis, this will be advised via the DISS query.

If the low oil pressure warning is present on the DIP following the extended road test in section 1 or this is a repeat visit by the customer for an engine lubricating oil pressure warning, continue to remove the *Valve For Oil Pressure Control (N428)* - figure 7.

When the *Valve For Oil Pressure Control* has been removed carefully examine it and the associated location on the engine for any signs of internal contamination, debris or damage. If no contamination, debris or damage is noted seek Technical advice and the next steps via the DISS query.

Only proceed with the following if debris HAS been found on the valve or associated location on the engine

If debris is found on the *Valve* or the associated location on the engine, capture images of the debris in-situ, ensure the images are of sufficient high quality to clearly show the location and type of debris, attach all images to the DISS query.

Clean all debris from the *Valve* location on the engine and replace the *Valve* with a new part. Retain the original *Valve* and debris in clean sealed containers, the *Valve* and debris may be required for further analysis, this will be advised via the DISS query.

Repeat the road test from Section 1, ensure the low oil pressure warning does not display on the DIP. If a low oil pressure warning reoccurs seek further Technical advice via the DISS query.

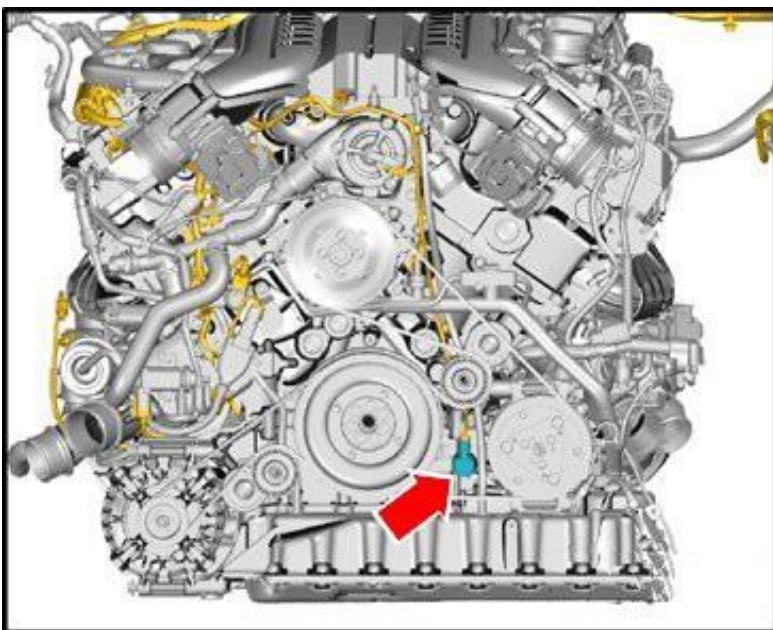


Figure 7

[Warranty](#) [accounting](#) [instructions](#)

Warranty Type - 110 or 910

Damage Service Number - 1719

Damage Code - 0010

Labour Operation Codes - See table

Number	Description	Labour Operation Code	Time
1	ODIS Diagnostic log	01 50 00 00	Time taken from ODIS log
2	ODIS Measured values - to read	01 50 00 00	Time taken from ODIS log
3	Engine Oil level check - 12-cylinder, Petrol engine - Dipstick	17 01 01 01 – (Use 17 01 01 99 until 09.07.2020)	10TU
	Engine Oil level check – Infotainment touch screen	17 01 01 02 (Use 17 01 01 99 until 09.07.2020)	10TU
4	Oil pressure check	17 05 19 00	(130 TU)
5	Engine Oil Sample - Oil sample - 12-cyl. Petrol engine - Dipstick	17 01 01 01 (Use 17 01 01 99 until 09.07.2020)	10TU
6	New Continental GT New Continental GTC New Flying Spur Engine Oil and oil filter change - Drain & refill - Includes: 40 86 19 Strut remove + reinstall	17 01 17 00 (Use 17 01 17 99 until 09.07.2020)	140TU
	<u>Bentayga</u> Engine Oil and oil filter change - Includes – 10 82 19 Noise damping remove and reinstall	17 01 17 00	90 TU
7	Road test	01 21 00 00	(50 TU)
8	Oil control valve - To change	17 26 19 00	(100 TU)

[Parts information](#)

Refer to the Electronic Part Catalogue (ETKA) for current part information.