Chapter 11: Filter/Error Statistics

McDonald's LOV Gen 2 Statistics Form

McDonald's LOV Statistics Check

To check cooks remaining until a filter prompt –Press the **FILTER** button. The controller displays **COOKS REMAINING** followed by a value. Write the **COOKS REMAINING** value here _____.

Follow these steps to check the daily filter stats:

Left Display	Right Display	Action
OFF	OFF	Press and hold the **INFO** button for **THREE** seconds until *INFO MODE* is displayed.
INFO MODE	Blank	None required.
FILTER STATS	Blank	Press the ✓ (**1**) button.
Current Day (ex. *TUE*)	Current date (ex. *06/04/10*)	Use the ◄ and ► buttons to scroll from the current day and going back one week. When the day is selected press the ▼ (**INFO**) button. **NOTE:** Split vats have an L or R in front of the left display indicating statistics for either the left or right side of the vat.
FILTERED	(ex. *4 FRI*)	Press the ▼ (**INFO**) button. Number of times vat filtered and day.
FLT BPSD	(ex. *0 FRI*)	Press the ▼ (**INFO**) button. Number of times filter was bypassed and day.
FLT AVG	(ex. *12 FRI*)	Press the ▼ (**INFO**) button. Average number of cook cycles per filter and day.
FILTERED	(ex. *4 FRI*)	Use the ◄ and ► buttons to scroll to another day or press the ✖ (**2**) button two times to exit.
OFF	OFF	

Daily Filter Statistics

Day/ Date	FRYER #1		FRYER #2		FRYER #3		FRYER #4		FRYER #5	
	Filter	Bypass	Filter	Bypass	Filter	Bypass	Filter	Bypass	Filter	Bypass

FilterQuick/OCF Statistics Form

FilterQuick/OCF Filter Statistics Check

To check cooks remaining until a filter prompt –Press the **FILTER** button. The controller displays **FILTER PERCENT** followed by a value and **COOKS REMAINING** followed by a value. Write the **COOKS REMAINING** value here _____.

Follow these steps to check the daily filter stats:

Left Display	Right Display	Action
OFF/ON	OFF/ON	Press ✓ and hold until INFO MODE is displayed and release.
LAST DISPOSE STATS		Press ▶ to scroll to DAILY STATS.
DAILY STATS		With the desired stats displayed, press ✓.
MON	DATE	Press ▼▲ to scroll a day within the prior week. With the desired date displayed, press ▶.
FILTERS	NUMBER AND DAY	Press ▼ to scroll number of times the vat was filtered on the days of the prior week and log below. Once all filters are logged press ▶ two (2) times to FILTERS BYPASSED.
FILTERS BYPASSED	NUMBER AND DAY	Press ▼ to scroll number of times the filter prompt was bypassed on the days in the prior week. Press ▶.
EXIT	EXIT	Press ✓ button once and press ▶ to scroll to desired choice. Once desired choice is displayed, press ✓ button or press the Scan button once to return the controller to OFF.

Daily Filter Statistics

Day/ Date	FRYER #1		FRYER #2		FRYER #3		FRYER #4		FRYER #5	
	Filter	Bypass	Filter	Bypass	Filter	Bypass	Filter	Bypass	Filter	Bypass

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McDonald's LOV Touch Error Log and Statistics Check

Follow these steps to check the Error Log:

DISPLAY	ACTION
🏠	1. Press the Home button.
✖	2. Press the Service button.
👤	3. Press the Manager button.
1 6 5 6	4. Enter **1650**
✓	5. Press the √ (check) button.
□ **E-LOG**	6. Press the E-LOG button. The three most recent errors are shown.
⬇	7. Press the Down button. The next three errors are shown. Continue pressing the down arrow to view additional errors.
⬅ 🏠	8. Press the Back button to return to menu or press the Home button to exit.
👤 **CREW MODE**	9. Press the Crew Mode button.

The E-LOG function is used to view the ten (10) most recent error codes encountered on the fryer. These codes are displayed with the most recent errors displayed first. The error code, time and date are displayed.

If no errors exist, the controller is blank in this function. Errors are displayed with the side of the error if a split vat, error code, time and date. An error code displaying an "L" indicates left side of a split vat while an "R" indicates right side of a split vat where the error occurred (R E19 06:34AM   04/22/2019). An error code displaying a "G" indicates this was a global error not specifically linked to a particular vat.

Write the error #'s down on the following page. The error log codes are on the last page.

Filter-Error Statistics

Error Log

Error	VAT #1			VAT #2			VAT #3			VAT #4		
	Left	Date/ Time	Right	Date/ Time	Left	Date/ Time	Right	Date/ Time	Left	Date/ Time	Right	Date /Time
A												
B												
C												
D												
E												
F												
G												
H												
I												
J												

Filter-Error Statistics

Follow these steps to check the daily filter stats:

DISPLAY	ACTION
🏠 ❓	1. Press the Home button and then the Information button.
⟁	2. Press the Filter button.
☐ **DAY 1** ☐ **DAY 2** ☐ **DAY 3** ☐ **DAY 4** ⬇	3. Select and press the desired day. Press the down arrow to scroll back additional days.
1. **DAY AND DATE** (Day and date of filter statistics displayed) 2. **COOKS REMAINING UNTIL NEXT FILTER** (Number of times cooks that remain until the next filter prompt.) Write this number below. 4. **DAILY NUMBER OF FILTERS** (Number of times vat filtered that day.) ⬇	4. Press the down arrow to scroll to more statistics.
5. **DAILY NUMBER OF SKIPPED FILTERS** (Number of times filter was bypassed that day.) ⬇ 9. **FILTRATION –** (Displays if filtration is enabled or disabled. Diagnostic tool to determine status of FIB board.) ⬆ ⬅	5. Press the up arrow to scroll up or the back button to return to select another day.
🏠	6. Press the back button to return to menu or the home button to exit.

Write the item #2 **COOKS REMAINING UNTIL NEXT FILTER** value here _____.
Capture the item #4 **DAILY NUMBER OF FILTERS** (Number of times vat filtered that day.)
and item #5 **DAILY NUMBER OF SKIPPED FILTERS** (Number of times filter was bypassed
that day.) for each vat.
Write the item #9 **FILTRATION status here _____.**

11-5

Filter-Error Statistics

Daily Filter Statistics

DAY 1

	Vat #1	Vat #2	Vat #3	Vat #4	Vat #5	Vat #6
Day/Date	/	/	/	/	/	/
Daily Cooks						
# Filters						
# Skipped Filters						
Avg Cooks						

DAY 2

	Vat #1	Vat #2	Vat #3	Vat #4	Vat #5	Vat #6
Day/Date	/	/	/	/	/	/
Daily Cooks						
# Filters						
# Skipped Filters						
Avg Cooks						

DAY 3

	Vat #1	Vat #2	Vat #3	Vat #4	Vat #5	Vat #6
Day/Date	/	/	/	/	/	/
Daily Cooks						
# Filters						
# Skipped Filters						
Avg Cooks						

DAY 4

	Vat #1	Vat #2	Vat #3	Vat #4	Vat #5	Vat #6
Day/Date	/	/	/	/	/	/
Daily Cooks						
# Filters						
# Skipped Filters						
Avg Cooks						

DAY 5

	Vat #1	Vat #2	Vat #3	Vat #4	Vat #5	Vat #6
Day/Date	/	/	/	/	/	/
Daily Cooks						
# Filters						
# Skipped Filters						
Avg Cooks						

DAY 6

	Vat #1	Vat #2	Vat #3	Vat #4	Vat #5	Vat #6
Day/Date	/	/	/	/	/	/
Daily Cooks						
# Filters						
# Skipped Filters						
Avg Cooks						

11-6

Filter-Error Statistics

DAY 7

	Vat #1	Vat #2	Vat #3	Vat #4	Vat #5	Vat #6
Day/Date	/	/	/	/	/	/
Daily Cooks						
# Filters						
# Skipped Filters						
Avg Cooks						

Follow these steps to capture the software version. Do this on each controller.

DISPLAY	ACTION
	1. Press the Home button.
	2. Press the Information button.
	3. Press the down arrow button.
	4. Press Software Version button.
INITIALIZING ...	5. No action needed.
1. **UIB SOFTWARE VERSION** 2. **SIB SOFTWARE VERSION** 3. **VIB SOFTWARE VERSION** 4. **FIB SOFTWARE VERSION** 	6. Press the down arrow to scroll to additional software versions and probe temperatures. **NOTE: Split vats will have an SIB2 and left and right vat, AIF, and ATO temperatures.**
5. **OQS SOFTWARE VERSION** 	7. Press the up arrow to scroll up or the home button to exit.

Record Software Versions for each controller below:

Vat # 1 - UIB_____SIB1_____ SIB2_____
VIB_____FIB_____ OQS_____

Vat # 2 - UIB_____SIB1_____ SIB2_____
VIB_____FIB_____ OQS_____

Vat # 3 - UIB_____SIB1_____ SIB2_____
VIB_____FIB_____ OQS_____

Vat # 4 - UIB_____SIB1_____ SIB2_____
VIB_____FIB_____ OQS_____

Filter-Error Statistics

Vat # 5 - UIB_____**SIB1**_____ **SIB2**_____
VIB_____**FIB**_____ **OQS**_____

Vat # 6 - UIB_____**SIB1**_____ **SIB2**_____
VIB_____**FIB**_____ **OQS**_____

Error Log Codes (For FilterQuick F4000 Touch Controllers Only)

Code	ERROR MESSAGE	EXPLANATION
E13	TEMPERATURE PROBE FAILURE	TEMP Probe reading out of range. Call service.
E16	HIGH LIMIT 1 EXCEEDED	High limit temperature is past more than 410°F (210°C), or in CE countries, 395°F (202°C)
E17	HIGH LIMIT 2 EXCEEDED	High limit switch has opened.
E18	HIGH LIMIT PROBLEM DISCONNECT POWER	Vat temperature exceeds 460°F (238°C) and the high limit has failed to open. Immediately disconnect power to the fryer and call service.
E19	HEATING FAILURE – XXX F or XXX C	Heating Control latch circuit failed. Heat Contactor failed to latch.
E25	HEATING FAILURE - BLOWER	The air pressure switch(es) failed to close.
E27	HEATING FAILURE - PRESSURE SWITCH - CALL SERVICE	The air pressure switch has failed closed.
E28	HEATING FAILURE – XXX F or XXX C	The fryer has failed to ignite and has locked out the ignition module.
E29	TOP OFF PROBE FAILURE - CALL SERVICE	ATO RTD reading out of range. Call service
E32	DRAIN VALVE NOT OPEN - FILTRATION AND TOP OFF DISABLED - CALL SERVICE	Drain valve was trying to open and confirmation is missing
E33	DRAIN VALVE NOT CLOSED - FILTRATION AND TOP OFF DISABLED - CALL SERVICE	Drain valve was trying to close and confirmation is missing
E34	RETURN VALVE NOT OPEN - FILTRATION AND TOP OFF DISABLED - CALL SERVICE	Return valve was trying to open and confirmation is missing
E35	RETURN VALVE NOT CLOSED - FILTRATION AND TOP OFF DISABLED - CALL SERVICE	Return valve was trying to close and confirmation is missing
E36	VALVE INTERFACE BOARD FAILURE - FILTRATION AND TOP OFF DISABLED - CALL SERVICE	Valve Interface Board connections lost or board failure. Call service.
E37	AUTOMATIC INTERMITTENT FILTRATION PROBE FAILURE - FILTRATION DISABLED - CALL SERVICE	AIF RTD reading out of range. Call service.

Filter-Error Statistics

Code	ERROR MESSAGE	EXPLANATION
E39	CHANGE FILTER PAD	25-hour timer has expired or dirty filter logic has activated. Change the filter paper or pad.
E41	OIL IN PAN ERROR	The system detects that oil may be present in the filter pan.
E42	CLOGGED DRAIN (Gas)	Vat did not empty during filtration. Ensure the drain is not clogged and follow prompts.
E43	OIL SENSOR FAILURE - CALL SERVICE	Oil level sensor may have failed. Call service.
E44	RECOVERY FAULT	Recovery time exceeded maximum time limit.
E45	RECOVERY FAULT – CALL SERVICE	Recovery time exceeded maximum time limit for two or more cycles. Call service.
E46	SYSTEM INTERFACE BOARD 1 MISSING - CALL SERVICE	SIB board 1 connection lost or board failure. Call service.
E51	DUPLICATE BOARD ID - CALL SERVICE	Two or more controllers have the same location ID. Call service.
E52	USER INTERFACE CONTROLLER ERROR - CALL SERVICE	The controller has an unknown error. Call service.
E53	CAN BUS ERROR - CALL SERVICE	Communications are lost between boards. Call service.
E54	USB ERROR	USB connection lost during an update.
E55	SYSTEM INTERFACE BOARD 2 MISSING - CALL SERVICE	SIB board 2 connection lost or board failure. Call service.
E61	MISCONFIGURED ENERGY TYPE	The fryer is configured for the incorrect energy type. Call service.
E62	VAT NOT HEATING – CHECK ENERGY SOURCE – XXXF OR XXXC	The vat is not heating properly.
E63	RATE OF RISE	Rate of rise error occurred during a recovery test. Ensure the oil level is at the bottom oil level when cold and at the top oil level line when at setpoint. On electric fryers ensure the probe is not touching the elements.
E64	FILTRATION INTERFACE BOARD FAILURE - FILTRATION AND TOP OFF DISABLED - CALL SERVICE	Filtration Interface Board connections lost or board failure. Call service.
E65	CLEAN OIB SENSOR – XXX F OR XXX C - CALL SERVICE	Gas -The oil is back sensor does not detect oil. Clean optional oil sensor.
E66	DRAIN VALVE OPEN – XXXF OR XXXC	Drain valve is opened during cooking.
E67	SYSTEM INTERFACE BOARD NOT CONFIGURED	Controller is turned on when the SIB board

Code	ERROR MESSAGE	EXPLANATION
	- CALL SERVICE	is not configured. Call service.
E68	OIB FUSE TRIPPED – CALL SERVICE	The VIB board OIB fuse has tripped and didn't reset. Call service.
E69	RECIPES NOT AVAILABLE – CALL SERVICE	The controller has not been programmed with product recipes. Replace controller with factory programmed controller.
E70	OQS TEMP HIGH	Oil temperature is too high for a valid OQS reading. Filter at a temperature between 300ºF (149ºC) and 375ºF (191ºC).
E71	OQS TEMP LOW	Oil temperature is too low for a valid OQS reading. Filter at a temperature between 300ºF (149ºC) and 375ºF (191ºC).
E72	TPM RANGE LOW	The TPM is too low for a valid OQS reading. This may also be seen with fresh new oil. The incorrect oil type may be selected in the setup menu. The sensor may not be calibrated for the oil type. See oil type chart in instruction document 8197316. If issue continues contact a FAS.
E73	TPM RANGE HIGH	The TPM reading is too high for a valid OQS reading. Dispose the oil.
E74	OQS ERROR	The OQS has an internal error. If issue continues contact a FAS.
E75	OQS AIR ERROR	The OQS is detecting air in the oil. Check the O-rings and check/tighten prescreen filter to ensure no air is entering the OQS sensor. If issue continues contact a FAS.
E76	OQS ERROR	The OQS sensor has a communication error. Check connections to the OQS sensor. Power cycle the entire fryer battery. If issue continues contact a FAS.