



Countries: CANADA, UNITED STATES
Availability: ISIS, Fleet!SIS, Body Builder, IsSIR
Major System: ENGINES
Current Language: English
Other Languages: NONE
Viewed: 370

Document ID: IK1201435
Revision: 2
Created: 5/8/2019
Last Modified: 9/27/2019
Author: Greg Scheff

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Coding Information

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Title: Understanding Oil Drain Intervals on the International CV

Applies To: All CV Chassis

CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

09/27/2019 - Added note as a reminder to always check for the latest calibration
 05/21/2019 - Feedback response, added note and a link to the OMM to reset the OLM once the oil is changed
 05/17/2019 - Initial Article Release

DESCRIPTION

This document is intended to help understand how the Oil Life Monitor (OLM) system operates to determine the oil drain intervals on the International CV chassis.

OVERVIEW

Unlike some other engines that have a recommended oil drain interval based on miles driven, hours operated, or a time based value, the International CV uses the vehicles computer system to determine when the oil drain interval is required.

The system uses an Oil Life Monitor (OLM) to continually monitor operating conditions and make the oil drain interval determination.

NOTE:

Please make sure the engine calibration is current if a shorter than expected oil life complaint is present. Calibration changes sometimes will have corrections that can drastically change this monitor.

OPERATION

The Oil Life Monitor (OLM) is not a mileage counter. It is actually a computer based software algorithm that determines when to change oil based on many engine operating conditions. There is no actual oil condition sensor, the ECM continuously monitors engine operating conditions to determine when to change the oil.

Some of those factors include but are not limited to:

- Engine revolutions
- Engine temperatures

- Miles driven
- Hours operated

Based on the driving and operational conditions, the required oil drain interval can vary considerably. One example would be vehicles operating on-highway would have a longer drain interval than vehicles operating inter-city.

DASH INDICATORS



Figure #1: Change Engine Oil Soon Message

When the system has calculated that the oil life has diminished, a "Change Engine Oil Soon" message will come on at start up indicating an oil change is necessary (**Figure #1**).

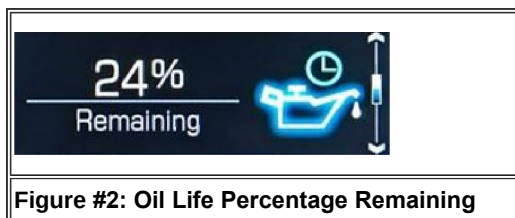


Figure #2: Oil Life Percentage Remaining

All vehicles will have the "Change Engine Oil Soon" message displayed on the dash (**Figure #1**) once the useful oil life reaches 5%. At that time the oil change needs to be performed as soon as possible before it gets to 0%. At any time you can check the Oil Life Percentage remaining in the gauge cluster (**Figure #2**) to help determine when the next maintenance interval is nearing.

CAUTION:

It is critical to reset the Oil Life Monitor once the oil and filter have been changed. Instructions can be found in the Engine Operation and Maintenance Manual Linked below, or in the Master Service Information site.

WARNING:

The oil and filter must be changed at the time the display recommends. Failure to do so may result in catastrophic engine damage.

As always, please follow the published guidelines outlined in the [Engine Operation and Maintenance Manual](#).

How to Reset the Engine Oil Life System

Reset the system whenever the engine oil is changed so that the system can calculate the next engine oil change. Always reset the engine oil life to 100% after every oil change. It will not reset itself.

To reset the engine oil life system:

1. Display the OIL LIFE REMAINING on the DIC. If the vehicle does not have DIC buttons, the vehicle must be in Park (P) to access this display. See Driver Information Center (DIC) (Base Level) or Driver Information Center (DIC) (Uplevel) in the

vehicle's Operation and Maintenance Manual.

Press and hold the checkmark icon, or the trip odometer reset stem if the vehicle does not have DIC buttons, for several seconds. The oil life will change to 100%.

The oil life system can also be reset as follows:

2. Display the OIL LIFE REMAINING on the DIC. See Driver Information Center (DIC) (Base Level) or Driver Information Center (DIC) (Uplevel) in the vehicle's Operation and Maintenance Manual.
3. Fully press the accelerator pedal slowly three times within five seconds.
4. Display the OIL LIFE REMAINING on the DIC. If the display shows 100%, the system is reset.

If the vehicle has a CHANGE ENGINE OIL SOON message and it comes back on when the vehicle is started and/or the OIL LIFE REMAINING is near 0%, the engine oil life system has not been reset. Repeat the procedure.

OTHER RESOURCES

[Master Service Information Site](#)

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