

| Motorcraft   | <sup>®</sup> Engine Antifreeze/C<br>(Model Years 2018 ar | Coolants - Usage Chart<br>nd forward) |                        |  |  |  |  |
|--|--|---------------------------------------|------------------------|--|--|--|--|
|  | Model Year   |                                       |                        |  |  |  |  |
| Vehicle  | 2018   | 2019                                  | 2020                   |  |  |  |  |
|  | 2016   | 2019                                  | 2020                   |  |  |  |  |
| FORD   |  |                                       |                        |  |  |  |  |
| C-MAX Hybrid                                       | 0  | N/A                                   | N/A                    |  |  |  |  |
| Econoline (E-Series)                               | 0  | O (prior to 7/16/18)                  | DY                     |  |  |  |  |
| EcoSport EcoSport                                  | 0  | DY (from 7/16/18)                     | 0                      |  |  |  |  |
| Ecosport   | <u> </u>   | O (prior to 7/8/19)                   | 0                      |  |  |  |  |
| Edge   | 0  | DY (from 7/8/19)                      | DY                     |  |  |  |  |
| France (including Unbrid)                          | 0  | 0                                     | O (prior to 1/1/20)    |  |  |  |  |
| Escape (including Hybrid)                          | 8  | 0                                     | DY (from 1/1/20)       |  |  |  |  |
| Expedition   | O (prior to 7/9/18)                                      | DY                                    | DY                     |  |  |  |  |
| Expedition   | DY (from 7/9/18)   | D1                                    | 51                     |  |  |  |  |
| Explorer (including Hybrid)                        | 0  | 0                                     | DY                     |  |  |  |  |
| F-150 (including Raptor)                           | 0  | O (prior to 1/1/19)                   | DY                     |  |  |  |  |
|  |  | DY (from 1/1/19)                      |                        |  |  |  |  |
| F-250 - F-550                                      | O (prior to 7/9/18)                                      | O (prior to 7/9/18)                   | DY                     |  |  |  |  |
|  | DY (from 7/9/18)   | DY (from 7/9/18)                      |                        |  |  |  |  |
| F-650 - F-750                                      | 0  | O (prior to 7/16/18)                  | DY                     |  |  |  |  |
|  |  | DY (from 7/16/18)                     |                        |  |  |  |  |
| Fiesta   | 0  | 0                                     | N/A                    |  |  |  |  |
| Flex   | О  | O (prior to 7/8/19)                   | N/A                    |  |  |  |  |
|  |  | DY (from 7/8/19)                      |                        |  |  |  |  |
| Focus / Focus Electric                             | 0  | N/A                                   | N/A                    |  |  |  |  |
| Fusion (including Hybrid)                          | 0  | 0                                     | O (prior to 1/1/20)    |  |  |  |  |
|  |  |                                       | DY (from 1/1/20)       |  |  |  |  |
| gт   | 0  | 0                                     | O (prior to 1/1/20)    |  |  |  |  |
| Motorhome F-53 / F-59                              | 0  | 0                                     | DY (from 1/1/20) DY    |  |  |  |  |
| Motornonie F-337 F-39                              | <u> </u>   |                                       | O (prior to 1/1/20)    |  |  |  |  |
| Mustang (including Shelby GT350 and Shelby GT 500) | 0  | 0                                     | DY (from 1/1/20)       |  |  |  |  |
|  |  | O (prior to 7/8/19)                   | 21 (116.111 11 12 2 7  |  |  |  |  |
| Ranger   | N/A  | DY (from 7/8/19)                      | DY                     |  |  |  |  |
| Taurus   | 0  | 0                                     | N/A                    |  |  |  |  |
|  |  | O (prior to 1/1/19)                   |                        |  |  |  |  |
| Transit  | 0  | DY (from 1/1/19)                      | DY                     |  |  |  |  |
| Transit Connect                                    | 0  | 0                                     | o                      |  |  |  |  |
|  |  |                                       |                        |  |  |  |  |
| LINCOLN  | N. Ca  | N. (2)                                |                        |  |  |  |  |
| Aviator (including Hybrid)                         | N/A  | N/A                                   | DY O (prior to 1/1/20) |  |  |  |  |
| Continental  | 0  | 0                                     | DY (from 1/1/20)       |  |  |  |  |
|  |  |                                       | O (prior to 1/1/20)    |  |  |  |  |
| Corsair  | N/A  | N/A                                   | DY (from 1/1/20)       |  |  |  |  |
| MKC  | 0  | 0                                     | N/A                    |  |  |  |  |
|  |  | O (prior to 7/8/19)                   |                        |  |  |  |  |
| МКТ  | 0  | DY (from 7/8/19)                      | N/A                    |  |  |  |  |
| мкх  | 0  | N/A                                   | N/A                    |  |  |  |  |
| MV7 (including Unbrid)                             |  |                                       | O (prior to 1/1/20)    |  |  |  |  |
| MKZ (including Hybrid)                             | 0  | 0                                     | DY (from 1/1/20)       |  |  |  |  |
| Nautilus   | N/A  | O (prior to 7/8/19)                   | DY                     |  |  |  |  |
| 11001100   | IVA  | DY (from 7/8/19)                      |                        |  |  |  |  |
| Navigator  | O (prior to 7/9/18)                                      | DY                                    | DY                     |  |  |  |  |
| · · · · · · · · · · · · · · · · · · ·              | DY (from 7/9/18)   |                                       |                        |  |  |  |  |

## **Notes:**

The engine antifreeze/coolant usage noted in the chart above applies to all engine types (e.g., gasoline and diesel) available for a particular vehicle.

O = Orange-colored engine coolant approved to Ford specification WSS-M97B44-D or WSS-M97B44-D2 (Motorcraft® Orange Antifreeze/Coolant)

DY = Yellow-colored engine coolant approved to Ford specification WSS-M97B57-A1 or WSS-M97B57-A2 (Motorcraft® Yellow Antifreeze/Coolant)

Revised 7/2/2019

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## Motorcraft® Engine Antifreeze/Coolants - Usage Chart (Model Years prior to 2018) Model Year(s) 1999-2004 Vehicle 2009 2010 2012 2013-2017 2002 2003 2011 1999 2001 2008 **FORD** C-MAX Hybrid N/A N/A N/A N/A N/A G (prior to 7/15/02) G Crown Victoria G G ν ٧ ν N/A N/A Y (from 7/15/02) Y (2013 - 2016 and 2017 prior to 6/24/16 G (prior to 1/7/02) Econoline (E-Series) G G Υ O (2017 from 7/11/16) Y (from 1/7/02) Y (prior to 1/19/09 Edge N/A N/A N/A N/A DG DG (from 1/19/09) O (from 7/11/11) (prior to 11/16/10) G (prior to 7/15/02) Escape (including N/A G 0 0 Hybrid) Y (from 7/15/02) O (from 11/16/10) G (prior to 7/15/02) G G N/A N/A N/A N/A N/A N/A **Escort** Y (from 7/15/02) Υ N/A G ٧ Excursion N/A N/A N/A N/A N/A Y (prior to 2/22/10) G (prior to 7/15/02) G G 0 Expedition G 0 0 Y (from 7/15/02) O (from 2/22/10) DG (prior to 7/11/11) Explorer, Explorer G (prior to 7/15/02) Sport, and Explorer G G Υ 0 0 Y (from 7/15/02) O (from 7/11/11) Sport Trac G (prior to 2/4/02) F-150 - F-550 G G N/A N/A N/A N/A (Cuautitlan Plant) Y (from 2/4/02) F-250 - F-550 (Kentucky Truck G G Υ 0 0 0 Plant) G (prior to 7/15/02) F-150 - F-550 (All G G Υ 0 0 other plants) Y (from 7/15/02) Fiesta N/A N/A N/A N/A N/A N/A N/A O DG (prior to 7/11/11) (prior to 1/19/09) Flex N/A N/A N/A N/A N/A DG DG 0 DG (from 1/19/09) O (from 7/11/11) N/A N/A N/A N/A N/A N/A N/A N/A N/A Freestar G (prior to 7/15/02) G Υ Υ Focus (including RS) N/A 0 Y (from 7/15/02) Focus Electric N/A N/A N/A N/A N/A N/A N/A N/A 0 Y (prior to 7/6/09) DG (prior to 8/15/11) Fusion (including ν ν N/A N/A N/A N/A DG 0 Hybrid) DG (from 7/6/09) O (from 8/15/11) Y (2013 - 2014) Motorhome F-53/ G G F-59 O (2015 - 2017) G (prior to 7/15/02) Mustang (including Cobra, Shelby GT500, Boss 302, etc.) G G ٧ v ν ٧ 0 0 0 V (from 7/15/02) G (prior to 7/15/02) Υ Ranger G G N/A N/A Y (from 7/15/02) Ranger Electric N/A G N/A N/A N/A N/A N/A N/A N/A G (prior to 7/15/02) Y (prior to 5/18/09) DG (prior to 7/11/11) Taurus G G DG 0 Y (from 7/15/02) DG (from 5/18/09) O (from 7/11/11) G (prior to 7/15/02) Thunderbird N/A N/A Υ N/A N/A N/A N/A N/A Y (from 7/15/02) **Transit Connect** N/A N/A N/A N/A N/A N/A 0 0 O 0 G (prior to 7/15/02) Windstar G G G N/A N/A N/A N/A N/A N/A Y (from 7/15/02) All other vehicles not G N/A N/A Υ Υ N/A N/A N/A 0 otherwise noted

Revised 7/2/2019



| Motorcraft® Engine Antifreeze/Coolants - Usage Chart<br>(Model Years prior to 2018) |               |               |  |  |               |   |   |  |  |           |
|---|---------------|---------------|--|--|---------------|---|---|--|--|-----------|
|   | Model Year(s) |               |  |  |               |   |   |  |  |           |
| Vehicle   | Pre-<br>1999  | 1999-<br>2001 | 2002                                     | 2003                                     | 2004-<br>2008 | 2009                                      | 2010                                    | 2011                                       | 2012                                   | 2013-2017 |
| LINCOLN   |               |               |  |  |               |   |   |  |  |           |
| Aviator   | N/A           | N/A           | N/A                                      | Υ  | Υ             | N/A                                       | N/A                                     | N/A  | N/A                                    | N/A       |
| Blackwood   | N/A           | N/A           | G (prior to 7/15/02) Y (from 7/15/02)    | Y  | N/A           | N/A                                       | N/A                                     | N/A  | N/A                                    | N/A       |
| Continental   | G             | G             | G (prior to 7/15/02)<br>Y (from 7/15/02) | N/A                                      | N/A           | N/A                                       | N/A                                     | N/A  | N/A                                    | o         |
| LS  | N/A           | G             | G (prior to 7/15/02)<br>Y (from 7/15/02) | Y  | Υ             | N/A                                       | N/A                                     | N/A  | N/A                                    | N/A       |
| MKS   | N/A           | N/A           | N/A                                      | N/A                                      | N/A           | Y (prior to 5/18/09)                      | Y (prior to 5/18/09)                    | DG (prior to 7/11/11)                      | 0                                      | 0         |
| MING  |               | 107           | IV/A                                     | IV/A                                     |               | DG (from 5/18/09)                         | DG (from 5/18/09)                       | O (from 7/11/11)                           | ŭ                                      |           |
| мкт   | N/A           | N/A           | N/A                                      | N/A                                      | N/A           | N/A                                       | DG                                      | DG   | DG (prior to 7/11/11) O (from 7/11/11) | o         |
| мкх   | N/A           | N/A           | N/A                                      | N/A                                      | Υ             | Y (prior to 1/19/09) DG (from 1/19/09)    | DG                                      | DG (prior to 7/11/11) O (from 7/11/11)     | 0                                      | 0         |
| MKZ (including<br>Hybrid)   | N/A           | N/A           | N/A                                      | N/A                                      | Υ             | Y   | Y (prior to 7/6/09) DG (from 7/6/09)    | DG   | DG (prior to 8/15/11) O (from 8/15/11) | 0         |
| Navigator   | G             | G             | G  | G (prior to 7/15/02) Y (from 7/15/02)    | Υ             | Y   | Y (prior to 2/22/10) O (from 2/22/10)   | О  | 0                                      | 0         |
| Town Car  | G             | G             | G  | G (prior to 7/15/02) Y (from 7/15/02)    | Υ             | Υ   | Υ                                       | Υ  | N/A                                    | N/A       |
| All other vehicles not otherwise noted  | G             | N/A           | N/A                                      | N/A                                      | Υ             | N/A                                       | N/A                                     | N/A  | N/A                                    | О         |
| MERCURY   |               |               |  |  |               |   |   |  |  |           |
| Cougar  | G             | 0             | 0  | N/A                                      | N/A           | N/A                                       | N/A                                     | N/A  | N/A                                    | N/A       |
| Grand Marquis   | G             | G             | G  | G (prior to 7/15/02)<br>Y (from 7/15/02) | Υ             | Υ   | Y                                       | Υ  | N/A                                    | N/A       |
| Marauder  | N/A           | N/A           | N/A                                      | G (prior to 7/15/02)<br>Y (from 7/15/02) | Υ             | N/A                                       | N/A                                     | N/A  | N/A                                    | N/A       |
| Mariner (including<br>Hybrid)   | N/A           | N/A           | N/A                                      | N/A                                      | Υ             | Y   | Y                                       | Y (prior to 11/16/10)<br>O (from 11/16/10) | N/A                                    | N/A       |
| Milan (including<br>Hybrid)   | N/A           | N/A           | N/A                                      | N/A                                      | Υ             | Y   | Y (prior to 7/6/09)<br>DG (from 7/6/09) | DG   | N/A                                    | N/A       |
| Monterey  | N/A           | N/A           | N/A                                      | N/A                                      | Υ             | N/A                                       | N/A                                     | N/A  | N/A                                    | N/A       |
| Mountaineer   | G             | G             | G (prior to 7/15/02)<br>Y (from 7/15/02) | Υ  | Υ             | Y   | Y                                       | N/A  | N/A                                    | N/A       |
| Sable   | G             | G             | G (prior to 7/15/02)<br>Y (from 7/15/02) | Υ  | Υ             | Y (prior to 5/18/09)<br>DG (from 5/18/09) | N/A                                     | N/A  | N/A                                    | N/A       |
| All other vehicles not otherwise noted  | G             | G             | G  | N/A                                      | Υ             | N/A                                       | N/A                                     | N/A  | N/A                                    | N/A       |

## **Notes:**

The engine antifreeze/coolant usage noted in the chart above applies to all engine types (e.g., gasoline and diesel) available for a particular vehicle.

G = Green-colored engine coolant approved to Ford specification ESE-M97B44-A (Motorcraft® Premium Antifreeze/Coolant)

O = Orange-colored engine coolant approved to Ford specification WSS-M97B44-D or WSS-M97B44-D2 (Motorcraft® Orange Antifreeze/Coolant)

Y = Yellow-colored engine coolant approved to Ford specification WSS-M97B51-A1 (Motorcraft® Gold Antifreeze/Coolant)

DG = Dark green-colored engine coolant approved to Ford specification WSS-M97B55-A (Motorcraft® Specialty Green Engine Coolant)

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|  | Motorcraft® E  | ngine Cooling Syst   | em Products - l   | Usage Information  |  |
|--|--|--|---|--|--|
|  | Motorcraft® Premium Prediluted<br>Antifreeze/Coolant (USA)   | Motorcraft® Gold Prediluted<br>Antifreeze/Coolant  |   | Motorcraft® Orange Prediluted<br>Antifreeze/Coolant  | Motorcraft® Yellow Prediluted<br>Antifreeze/Coolant  |
| Motorcraft® Engine Coolant Name  | Motorcraft® Premium<br>Concentrated Antifreeze/<br>Coolant   | Motorcraft® Gold Concentrated<br>Antifreeze/Coolant  | Motorcraft® Specialty<br>Green Engine Coolant<br>(Concentrated)   | Motorcraft® Orange Concentrated<br>Antifreeze/Coolant  | Motorcraft® Yellow Concentrated<br>Antifreeze/Coolant  |
|  | Prediluted:<br>VC-5DIL and VC-5DIL-B (USA)   | Prediluted:<br>VC-7DIL-B and VC-7DIL-D (USA)<br>CVC-7DIL-B2 (Canada)   |   | Prediluted:<br>VC-3DIL-B and VC-3DIL-BD (USA)<br>CVC-3DIL-B (Canada)   | Prediluted:<br>VC-13DL-G (USA)<br>CVC-13DL-G and CVC-13DL-P (Canada)   |
| Service Part Numbers   | Concentrated:<br>VC-5 (USA)<br>CVC-5 (Canada)  | Concentrated:<br>VC-7-B and VC-7-D (USA)<br>CVC-7-B2 (Canada)  | VC-10-A2 (USA) /<br>CVC-10-A (Canada)   | Concentrated:<br>VC-3-B and VC-3-D (USA)<br>CVC-3-B2 (Canada)  | Concentrated:<br>VC-13-G (USA)<br>CVC-13-G and CVC-13-P (Canada)   |
| Ford Specification   | ESE-M97B44-A   | WSS-M97B51-A1  | WSS-M97B55-A  | Prediluted: WSS-M97B44-D2<br>Concentrated: WSS-M97B44-D  | Prediluted: WSS-M97B57-A2<br>Concentrated: WSS-M97B57-A1   |
|  |  |  |   |  |  |
| Use with the following products:   |  |  |   |  |  |
| Acustrip® 3-Way HD Antifreeze Coolant<br>Test Kit, Rotunda part numbers<br>328-2050-62291 and 328-20503R | Yes, but for use <i>only</i> with diesel<br>engine-equipped vehicles   | Yes, but for use <i>only</i> with diesel engine-equipped vehicles  | No  | Yes, but use <i>only</i> as recommended to check coolant for nitrite contamination                             | Yes, but use <i>only</i> as recommended to check coolant for nitrite contamination                                   |
|  |  |  |   | Yes, but for use <i>only</i> with the following vehicles:  |  |
|  |  |  |   | *2011 - 2019 (built prior to 7/9/18) diesel engine-equipped F-Series Super Duty                                |  |
| Antifreeze Coolant ELC Contamination<br>Kit, Rotunda part number 328-R071-ELC                            | No   | No   | No  | * 2016 - 2019 (built prior to 7/16/18) diesel<br>engine-equipped F-650 and F-750                               | No   |
| VC-1 - Motorcraft® Premium Cooling<br>System Flush   | Yes  | Yes  | Yes   | Yes  | Yes  |
| VC-8 - Motorcraft® Diesel Cooling<br>System Additive   | Yes, but use <i>only</i> in diesel engine-<br>equipped vehicles. Use <i>only</i> as<br>recommended.                  | Yes, but use <i>only</i> in diesel engine-equipped vehicles. Use <i>only</i> as recommended.                   | No  | No   | No   |
| VC-9 - Motorcraft® Engine Cooling<br>System Iron Cleaner (for industrial<br>use <i>only</i> )            | Yes, but use <i>only</i> when directed per<br>the vehicle's Workshop Manual or a<br>Technical Service Bulletin (TSB) | Yes, but use <i>only</i> when directed per the vehicle's Workshop Manual or a Technical Service Bulletin (TSB) | Yes, but use <i>only</i> when directed<br>per the vehicle's Workshop<br>Manual or a Technical Service<br>Bulletin (TSB) | Yes, but use <i>only</i> when directed per the vehicle's Workshop Manual or a Technical Service Bulletin (TSB) | Yes, but use <i>only</i> when directed per<br>the vehicle's Workshop Manual or a<br>Technical Service Bulletin (TSB) |
|  |  |  |   | Yes, but for use <i>only</i> with the following vehicles:  |  |
|  |  |  |   | * 2011 - 2019 (built prior to 7/9/18) diesel<br>engine-equipped F-Series Super Duty                            |  |
|  |  |  |   | * 2016 - 2019 (built prior to 7/16/18) diesel engine-equipped F-650 and F-750                                  |  |
| VC-12 - Motorcraft® Specialty Orange<br>Engine Coolant Revitalizer                                       | No   | No   | No  | Use only as recommended  | No   |

Revised 7/2/2019

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