

Part 573 Safety Recall Report

22V-484

Manufacturer Name : Ford Motor Company**Submission Date :** JUL 27, 2022**NHTSA Recall No. :** 22V-484**Manufacturer Recall No. :** 22S47**Manufacturer Information :**

Manufacturer Name : Ford Motor Company

Address : 330 Town Center Drive

Suite 500 Dearborn MI 48126-2738

Company phone : 1-866-436-7332

Population :

Number of potentially involved : 101,076

Estimated percentage with defect : 1 %

Vehicle Information :

Vehicle 1 : 2021-2022 Lincoln Corsair

Vehicle Type : LIGHT VEHICLES

Body Style : ALL

Power Train : HYBRID ELECTRIC

Descriptive Information : The affected components were introduced into production on 01/09/19 (earliest production date for 2020MY Escape) and were taken out of production on 06/13/22 (latest production date for 2022MY Corsair and Escape). Affected vehicles are equipped with 2.5L HEV or PHEV engines.

These vehicles are not produced in VIN order. Information as to the applicability of this action to specific vehicles can best be obtained by either calling Ford's toll-free line (1-866-436-7332) or by contacting a local Ford or Lincoln dealer who can obtain specific information regarding the vehicles from the Ford On-line Automotive Service Information System (OASIS) database.

Production Dates : OCT 24, 2019 - JUN 13, 2022

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Vehicle 2 : 2020-2022 Ford Escape

Vehicle Type : LIGHT VEHICLES

Body Style : ALL

Power Train : HYBRID ELECTRIC

Descriptive Information : The affected components were introduced into production on 01/09/19 (earliest production date for 2020MY Escape) and were taken out of production on 06/13/22 (latest production date for 2022MY Corsair and Escape). Affected vehicles are equipped with 2.5L HEV or PHEV engines.

These vehicles are not produced in VIN order. Information as to the applicability of this action to specific vehicles can best be obtained by either calling Ford's toll-free line (1-866-436-7332) or by contacting a local Ford or Lincoln dealer who can obtain specific information regarding the vehicles from the Ford On-line Automotive Service Information System (OASIS) database.

Production Dates : JAN 19, 2019 - JUN 13, 2022

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 3 : 2022-2022 Ford Maverick

Vehicle Type : LIGHT VEHICLES

Body Style : ALL

Power Train : HYBRID ELECTRIC

Descriptive Information : The affected components were introduced into production on 01/09/19 (earliest production date for 2020MY Escape) and were taken out of production on 06/13/22 (latest production date for 2022MY Corsair and Escape). Affected vehicles are equipped with 2.5L HEV or PHEV engines.

These vehicles are not produced in VIN order. Information as to the applicability of this action to specific vehicles can best be obtained by either calling Ford's toll-free line (1-866-436-7332) or by contacting a local Ford or Lincoln dealer who can obtain specific information regarding the vehicles from the Ford On-line Automotive Service Information System (OASIS) database.

Production Dates : FEB 03, 2021 - JUL 07, 2022

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Description of Defect :

Description of the Defect : In the event of an engine failure, significant quantities of engine oil and/or fuel vapor may be released into the under hood environment and may migrate to and/or accumulate near ignition sources resulting in potential under hood fire, localized melting of components, or smoke.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : Engine oil and/or fuel vapor that accumulates near a sufficiently hot surface, below the combustion initiation flame speed, may ignite resulting in an under hood fire, and increasing the risk of injury.

Description of the Cause : Isolated engine manufacturing issues have resulted in 2.5L HEV/PHEV engine failures involving engine block or oil pan breach. The fluid dynamics induced by the Under Engine Shield and Active Grille Shutter system could increase the likelihood of engine oil and/or fuel vapor expelled during an engine block or oil pan breach accumulating near sources of ignition, primarily expected to be the exhaust system.

Identification of Any Warning that can Occur : Engine failure is expected to produce loud noises (example: metal-to-metal clank) audible to the vehicle's occupants. An engine failure will also result in a reduction in engine torque. In Owner Letters mailed to customers, Ford will advise customers to safely park and shut off the engine as promptly as possible upon hearing unexpected engine noises, or after experiencing an unexpected torque reduction, or seeing smoke from the engine compartment.

Involved Components :

Component Name 1 : SHLD ASY ENG SPLS

Component Description : UNDER ENGINE SHIELD

Component Part Number : LX6B-6B629-E*

Component Name 2 : STRUC FRT END BLSTR – Corsair and Escape

Component Description : ACTIVE GRILLE SHUTTER – Corsair and Escape

Component Part Number : LX6B-A14E166-B*

Component Name 3 : STRUC FRT END BLSTR - Maverick

Component Description : ACTIVE GRILLE SHUTTER - Maverick

Component Part Number : NZ6B-A14E166-A*

Supplier Identification :

Component Manufacturer

Name : Ford Motor Company

Address : 1 American Road

Dearborn Michigan 48126

Country : United States

Chronology :

On May 4, 2022, an issue pertaining to 2.5L HEV and PHEV under hood fires was brought to Ford's Critical Concern Review Group (CCRG) for review.

From May 4-June 8, 2022, Ford's Critical Concern Review Group (CCRG) data analysis revealed 19 field reports of under hood fire or smoke for 2.5L HEV/PHEV vehicles. These reports were reviewed at a June 8, 2022 meeting. On June 8, 2022, Ford's CCRG initiated a stop ship and in-transit stop ship for all affected vehicles.

Through the remainder of June 2022, Ford continued to research the concern to better understand the reports, trends amongst the reports, scope the population, and understand potential causal factors.

As of June 22, 2022, Ford's CCRG has identified 23 warranty and field reports globally of under hood fire or smoke on 2.5L HEV/PHEV engines after a suspected block or oil pan breach.

The date range of identified reports is April 5, 2021 through May 19, 2022. Of the 23 reports, Ford's CCRG has categorized the warranty and field reports as: nine describing under hood or vehicle fire, six reporting localized under hood melting, seven describing under hood smoke, and one that did not contain sufficient detail to characterize. The current global 2020-2022MY 2.5L HEV/PHEV rates amongst affected models for block or oil pan breach are 0.17 R/1000, of which 0.08 R/1000 include reports of under hood fire and/or smoke.

Based on elevated occurrences of 2.5L HEV/PHEV under hood fires, the Ford's CCRG and Technical Review Group recommended a safety recall for the affected vehicles.

On June 29, 2022, Ford's Field Review Committee reviewed the concern and approved a field action.

Ford is not aware of any reports of accident or injury related to this condition.

July 15, 2022: Ford amended the volume of affected vehicles from 100,689 to 101,076 based on clarification of vehicle history information from Hermosillo Assembly Plant.

Description of Remedy :

Description of Remedy Program : Owners will be notified by mail and instructed to take their vehicle to a Ford or Lincoln dealer to have the Under Engine Shield and Active Grille Shutter modified. There will be no charge for this service.

Ford provided the general reimbursement plan for the cost of remedies paid for by vehicle owners prior to notification of a safety recall in May 2021. The ending date for reimbursement eligibility is estimated to be August 22, 2022.

Ford will forward a copy of the notification letters to dealers and to the agency when available.

How Remedy Component Differs from Recalled Component : The Under Engine Shield and Active Grille Shutter are modified to redirect and/or purge the engine compartment of engine oil and/or fuel vapor from known ignition sources to reduce the opportunity for under hood fire. The Under Engine Shield modification adds additional drain holes. The Active Grille Shutter modification ensures purge air flow through the engine compartment and reduced under hood temperatures during forward motion and/or cooling fan operation.

Component Name: SHLD ASY ENG SPLS
Component Description: UNDER ENGINE SHIELD
Component Part Number: LX6B-6B629-E*

Component Name: STRUC FRT END BLSTR – Corsair and Escape
Component Description: ACTIVE GRILLE SHUTTER – Corsair and Escape
Component Part Number: LX6B-A14E166-B*

Component Name: STRUC FRT END BLSTR - Maverick
Component Description: ACTIVE GRILLE SHUTTER - Maverick
Component Part Number: NZ6B-A14E166-A*

Identify How/When Recall Condition was Corrected in Production : NR

Recall Schedule :

Description of Recall Schedule : Notification to dealers is expected to occur on July 08, 2022. Mailing of owner notification letters is expected to begin August 08, 2022 and is expected to be completed by August 12, 2022.

Planned Dealer Notification Date : JUL 08, 2022 - JUL 08, 2022

Planned Owner Notification Date : AUG 08, 2022 - AUG 12, 2022

* NR - Not Reported