

Part 573 Safety Recall Report

24V-499

Manufacturer Name : Fisker Group Inc**Submission Date :** JUL 02, 2024**NHTSA Recall No. :** 24V-499**Manufacturer Recall No. :** TSB30032401**Manufacturer Information :**

Manufacturer Name : Fisker Group Inc

Address : 14 Centerpointe Drive

La Palma CA 90626

Company phone : 6026537139

Population :

Number of potentially involved : 7,545

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2023-2024 Fisker Ocean

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : HYBRID ELECTRIC

Descriptive Information : Fisker is launching a Voluntary Safety Recall Campaign to address a potential safety concern affecting all Fisker Ocean vehicles. This recall focuses on a potential issue with the cabin electric water pump. In these vehicles, a problem has been identified with the High Voltage Battery Management System (BMS) limp mode, which is designed to limit battery power to 8.5 kW. This limp mode is activated when there is a communication loss on the vehicle's Local Interconnect Network 6 (LIN6) bus. The root cause of this communication loss is a failure in the cabin electric water pump (EWP_H). To ensure the safety and reliability of its vehicles, Fisker is proactively addressing this issue through this recall campaign.

Production Dates : FEB 09, 2023 - MAR 13, 2024

VIN Range 1 : Begin : VCF1EBU2XPG001137 End : VCF1UBU23RG013085 Not sequential**Description of Defect :**

Description of the Defect : Fisker is launching a Voluntary Safety Recall Campaign to address a potential safety concern affecting all Fisker Ocean vehicles. This recall focuses on a potential issue with the cabin electric water pump. In these vehicles, a problem has been identified with the High Voltage Battery Management System (BMS) limp mode, which is designed to limit battery power to 8.5 kW. This limp mode is activated when there is a communication loss on the vehicle's Local Interconnect Network 6 (LIN6) bus. The root cause of this communication loss is a failure in the cabin electric water pump (EWP_H). To ensure the safety and reliability of its vehicles, Fisker is proactively addressing this issue through this recall campaign.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : There may be a safety concern regarding the vehicle's performance when it enters limp mode. In this mode, the vehicle's maximum battery power is restricted to 8.5 kW, which consequently limits the vehicle's speed to a range of 10–20 mph (20–30 km/h). This reduced speed can create hazardous conditions, particularly in scenarios where higher speeds are necessary to keep pace with traffic or to maneuver safely. For instance, on highways or busy roads, the inability to accelerate beyond this limited speed could lead to dangerous situations, as other drivers may not anticipate such a reduction in speed. This mismatch in speeds can increase the likelihood of accidents, thereby elevating the risk of injury to the vehicle's occupants as well as other road users. Additionally, this limitation can impede the vehicle's ability to perform evasive maneuvers, further exacerbating the potential for dangerous situations.

Description of the Cause : A problem has been identified with the High Voltage Battery Management System (BMS) limp mode, which is designed to limit battery power to 8.5 kW. This limp mode is activated when there is a communication loss on the vehicle's Local Interconnect Network 6 (LIN6) bus. The root cause of this communication loss is a failure in the cabin electric water pump (EWP_H).

Identification of Any Warning that can Occur : The 8.5 kW power limit remains in effect indefinitely until a key cycle occurs, although the vehicle is likely to fault again during the next key cycle. The power never drops to 0 kW. There is always a battery telltale indicator, and sometimes a "Battery Issue, Service Needed" message appears, although this does not happen in every case. All affected vehicles will have the cabin electric water pump replaced.

Involved Components :

Component Name 1 : LHS Cabin Electric Water Pump

Component Description : Electric Water Pump

Component Part Number : FM2930200022A

Supplier Identification :

Component Manufacturer

Name : JOHNSON ELECTRIC INTERNATIONAL (UK) LIMI

Address : Office G2, Metropolitan House
Longrigg Road, Swalwell Gateshead Foreign States NE16 3AS

Country : United Kingdom

Chronology :

- On November 14, 2023, a customer reported field event # 1 to Fisker, cabin electric water pump part replaced with same part in the field and investigation started.
- Between November 14, 2023, and June 2024, cabin electric water pumps were replaced upon failure in the field.
- On December 6, 2023, initial suspect parts shipment to supplier.
- On December 7, 2023, first daily meeting with supplier.
- On February 20, 2024, root cause confirmed by supplier.
- On February 22, 2024, interim containment action test finished by the supplier.
- On February 24, 2024, interim containment action/permanent corrective action implement by the supplier.
- On March 17, 2024, clean point at supplier manufacturing plant.
- Until June 2024, cabin electric water pumps were replaced upon failure in the field.
- On June 25, 2024, the Fisker Decision Committee (FDC) convened and, out of an abundance of caution, decided to issue a voluntary safety recall to replace the cabin electric water pump on affected vehicles. Fisker is not aware of any accidents or injuries related to this issue.

Description of Remedy :

Description of Remedy Program :

1. Replace all cabin electric water pumps (EWP_H) in production with new parts with improved conformal coating coverage.
2. Replace EWP_H on the affected customer cars in the field with the new pumps that have permanent corrective action implemented (improved coating)

How Remedy Component Differs from Recalled Component : Improved conformal coating coverage on Printed Circuit Board Assembly (PCBA) to cover resistor (R11).

Identify How/When Recall Condition was Corrected in Production : Replaced all cabin electric water pump with new parts in the manufacturing plant. On March 17, 2024, clean point at supplier manufacturing plant.

Recall Schedule :

Description of Recall Schedule : Estimated Date(s) for Notification to Owners: 8/25/2024

Planned Dealer Notification Date : AUG 23, 2024 - AUG 23, 2024

Planned Owner Notification Date : AUG 23, 2024 - AUG 23, 2024

* NR - Not Reported