Feature Engineering

```
Modified DataFrame:
   Equipment ID                Date  Sensor 1 (Temperature)  \
0             1 2022-01-01 08:00:00                    28.5
1             2 2022-01-01 08:15:00                    30.2
2             3 2022-01-01 08:30:00                    27.8
3             4 2022-01-01 08:45:00                    29.3
4             5 2022-01-01 09:00:00                    31.0

   Sensor 2 (Pressure)  Sensor 3 (Vibration) Maintenance History  Failure  \
0                102.3                   0.8                 NaN        0
1                 98.7                   1.2       Maintenance 1        0
2                 99.9                   1.0                 NaN        0
3                100.5                   0.9       Maintenance 2        0
4                 97.6                   1.5                 NaN        1

   hour_of_day
0            8
1            8
2            8
3            8
4            9

mechin Profil:
   Equipment ID  Sensor 1 (Temperature)  Sensor 2 (Pressure)  \
0             1                    28.5                102.3
1             2                    30.2                 98.7
2             3                    27.8                 99.9
3             4                    29.3                100.5
4             5                    31.0                 97.6

   Sensor 3 (Vibration)
0                   0.8
1                   1.2
2                   1.0
3                   0.9
4                   1.5

One-hot Encoded Maintenance History:
[[0. 0. 1.]
 [1. 0. 0.]
 [0. 0. 1.]
 [0. 1. 0.]
 [0. 0. 1.]]
```