



奈米標章
nanoMark

CERTIFICATE

Certificate No. 2022-002

This is to certify that the products listed below produced by

DKR Petroleum Co., Ltd.

are in compliance with the requirements of nanoMark Product Certification System

- I. Company Name : **DKR Petroleum Co., Ltd.**
- II. Company Certificate : **No.065**
- III. Address : **No.437, Sec. I, Dongxi 7th Rd., Dajia Dist.,
Taichung City 43754, Taiwan R.O.C.**
- IV. Representative : **CHI, YEH-WEI**
- V. Approved product : **Nano Lubricants For Wear**
- VI. Product name, model/specification, approved item number and efficacy:

| Product name | Model / Specification | Approved item number | Efficacy |
|---------------------------------------|-----------------------|----------------------|--|
| Nano ER Antifriction Conditioner Plus | ER-14K90A | 02650 | In compliance with the requirements of 「TN-049 Verification and Validation Standard on Nano Lubricants for Wear」 : 1.Improvement of wear resistance performance test : The diameter reduction of the wear mark is less than 15% for the four-ball test reduces. 2.Life extension test of lubricants : The lifespan of the lubricant increases more than 25%. 3.Test of the total acid value after the addition of nanometer wear-resistant lubricant additives : The total acid value change of the lubricant shall be $\leq 0.5\text{mg KOH/g}$ after adding the nano additive. 4.Test of the total water content after the addition of nanometer wear-resistant lubricant additives : The water content change shall be $\leq 0.1\%$ after adding the nano additive. |
| | ER-16K99A | 02651 | |
| | ER-16K100A | 02652 | |

VII. Date of Certificate Issuance : **Jan. 01, 2022**

Date of Certificate Expiration : **Dec. 31, 2022**

**Taiwan Nanotechnology
Industry Development Association**

Jan.01, 2022