

**LLC «JV YUKOIL»**

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State register No. 31852954



Testing laboratory of JV "YUKOIL" LLC is certified for carrying out tests of quality parameters of petroleum products, technical fluids and lubricants. Certificate of technical competence recognition № AB 83-21 dated 16.11.2021 is issued by the State-owned enterprise "ZAPORIZHYASTANDARTMETROLOGIA", valid till 16.11.2024

## Quality Certificate No 11087.01.01.1

### Engine oil YUKO TURBO DIESEL 15W-40

Manufacturer JV YUKOIL LLC

Packed by JV YUKOIL LLC

Viscosity grade: **SAE 15W-40**Quality Index: **API CD/SF**

Production date: March 2023

Package: canister 5L PE

Batch No: 11087.16.03.23.01.



| №  | Test                                                     | Norm        | Result   | Test method                            |
|----|----------------------------------------------------------|-------------|----------|----------------------------------------|
| 1  | Density at 20°C, kg/m³, not more than                    | 910         | 886,9    | ASTM D1298                             |
| 2  | Kinematic viscosity at 100°C, mm²/s                      | 12,5 - 16,3 | 14,20    | ASTM D445                              |
| 3  | Viscosity index, not less than                           | 100         | 100      | ASTM D2270                             |
| 4  | Open cup flash point, °C, not less than                  | 205         | 235      | ASTM D92                               |
| 5  | Pour point, °C, not high than                            | minus 25    | minus 26 | ASTM D97                               |
| 6  | Mass fraction of mechanical impurities, %, not more than | 0,015       | 0,013    | GOST 6370                              |
| 7  | Water content, %, not more than                          | traces      | traces   | ASTM D95                               |
| 8  | TBN, mg KOH/g, not less                                  | 6,5         | 7,60     | ASTM D4739 or ASTM D2896               |
| 9  | Color on colorimetr, in diluted ratio 15:85, not more    | 4,5         | 1,5      | ASTM D1500                             |
| 10 | Sulphated ash, %, not more than                          | 1,3         | 0,95     | ASTM D874                              |
| 11 | Mass fraction of active elements, %, not less:           |             |          | ASTM D6481 or ASTM D6443 or ASTM D4927 |
|    | - calcium content                                        | 0,25        | 0,258    | ASTM D6481 or ASTM D6443 or ASTM D4927 |
|    | - zinc content                                           | 0,045       | 0,047    | ASTM D6481 or ASTM D6443 or ASTM D4927 |
| 12 | CCS, mPa*s, not more than                                |             |          | ASTM D5293                             |
|    | CCS at minus 20°C                                        | 7000        | 7 000    | ASTM D5293                             |
| 13 | Corrosion on plates of the copper and steel              | pass        | pass     | GOST 2917 or ASTM D130                 |

**Result: the product quality meets the standard of TU U 19.2-31852954-045:2021**

seal

Head of Quality Assurance Department

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