**LUBRICANTS and OILS PROFICIENCY TESTS (January 2020 – December 2020)**

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| **Proficiency Testing Scheme** | **Provisional Scope \*)** | **ID of PT** |
| Base Oil | Acid Number, Air release time, Color, Conradson CR, Ramsbottom CR, Density, Evaporation loss by Noack, Flash Point, Kinematic Viscosity (40 and 100°C), Viscosity Stabinger (40 and 100°C), Viscosity Index, Pour Point, Rust prevention, Sulfur, Water and Water Separability. | iis20L03 |
| Engine Oil (fresh) | Acid Number, Base Number, Color, Conradson CR, Ramsbottom CR, Density, Evaporation loss by Noack, Flash Point, Foaming Characteristics, Kinematic Viscosity (40 and 100°C), Viscosity Stabinger (40 and 100°C), Viscosity Index, Viscosity Apparent (CSS), Viscosity HTHS, Nitrogen, Pour Point, Sulfated Ash, Sulfur, Water and Metals (Ca,P and Zn). | iis20L06 |
| Engine Oil (used) | Acid Number, Base Number, Density, Flash Point, Fuel Dilution, Kinematic Viscosity (40 and 100°C), Viscosity Index, Kinematic Viscosity Houillon and Water.  A separate sample is available for Metals (over 20 elements) (iis20L07M). | iis20L07, iis20L07M |
| Gear Oil (fresh) | Acid Number, Copper Corrosion, Density, Flash Point, Foaming Characteristics, Kinematic Viscosity (40 and 100°C), Viscosity Index, Pour Point, Rust prevention, Sulfur, Water, Water Separability, Level of Contamination and Metals (Ca,P and Zn). | iis20L01 |
| Gear Oil (used) | Acid Number, Density, Flash Point, Kinematic Viscosity (40 and 100°C), Viscosity Index, Membrane Filtration, Water, Level of Contamination and Metals (over 20 elements). | iis20L02 |
| Hydraulic Oil (fresh) | Acid Number, Copper Corrosion, Density, Flash Point, Foaming Characteristics, Kinematic Viscosity (40 and 100°C), Viscosity Stabinger (40 and 100°C), Viscosity Index, Pour Point, Sulfur, Water, Water Separability and Metals (Ca,P and Zn). | iis20L08 |
| Hydraulic Oil (used) | Acid Number, Density, Flash Point, Kinematic Viscosity (40 and 100°C), Viscosity Stabinger (40 and 100°C), Sulfur, Water and Level of Contamination.  A separate sample is available for 20 metals (iis20L09M). | iis20L09, iis20L09M |
| Mineral Oil PCBs | Individual congeners Polychlorinated Biphenyls, Aroclors and Total Chloride. | iis20L12 |
| Transformer Oil (fresh) | Tests from the IEC60296 and ASTM D3487 profiles and other tests:  Neutralization Number, Breakdown Voltage, Color, Density, Di-electric Dissipation factor, Specific Resistance, Flash Point, Interfacial Surface Tension, Kinematic Viscosity, Water and Additives. | iis20L10 |
| Transformer Oil (used) | Tests from the IEC60296 and ASTM D3487 profiles and other tests:  Neutralization Number, Breakdown Voltage, Density, Di-electric Dissipation factor, Specific Resistance, Flash Point, Interfacial Surface Tension, Kinematic Viscosity (40°C) and Water.  A separate sample is available for Furanic components (iis20L11F) | iis20L11, iis20L11F |
| Transformer Oil DGA | Dissolved gas analyses. From 2020 only 50 mL syringes are available. | iis20L13 |
| Turbine Oil (fresh) | Acid Number, Air Release Time, Density, Flash Point, Foaming Characteristics, Kinematic Viscosity (40 and 100°C), Viscosity Index, Pour Point, Sulfur, Water, Water Separability and Metals (Ca,P and Zn). | iis20L04 |
| Turbine Oil (used) | Acid Number, Color, Density, Flash Point, Insoluble Color Bodies, Kinematic Viscosity (40 and 100°C), Viscosity Index, Oxidation Stability, Water, Water Separability and Level of Contamination. | iis20L05 |

\*) To see the actual scopes of all previous PTs, you may be interested to download the available PT reports from the page ‘News and Reports’ on iis website www.iisnl.com.

**LUBRICANTS and OILS PT STARTING DATES**

**2020 program**

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| Tick to order participation | ID of PT | Sample dispatch date | Participation costs, excl. transport, etc \*) | | Costs Certificate of Performance | Tick to order certificate | Price, sub total |
| ○ | iis20L01 | 26 February 2020 | € 320 | | € 18 | ○ |  |
| ○ | iis20L02 | 26 February 2020 | € 320 | | € 18 | ○ |  |
| ○ | iis20L03 | 22 April 2020 | € 320 | | € 18 | ○ |  |
| ○ | iis20L04 | 22 April 2020 | € 320 | | € 18 | ○ |  |
| ○ | iis20L05 | 22 April 2020 | € 320 | | € 18 | ○ |  |
| ○ | iis20L06 | 13 May 2020 | € 320 | | € 18 | ○ |  |
| ○ | iis20L07 | 13 May 2020 | € 320 | € 415 \*\*) | € 18 | ○ |  |
| ○ | iis20L07M | 13 May 2020 | € 320 | € 18 | ○ |  |
| ○ | iis20L08 | 7 October 2020 | € 320 | | € 18 | ○ |  |
| ○ | iis20L09 | 7 October 2020 | € 320 | € 415 \*\*) | € 18 | ○ |  |
| ○ | iis20L09M | 7 October 2020 | € 320 | € 18 | ○ |  |
| ○ | iis20L10 | 28 October 2020 | € 320 | | € 18 | ○ |  |
| ○ | iis20L11 | 28 October 2020 | € 320 | € 415 \*\*) | € 18 | ○ |  |
| ○ | iis20L11F | 28 October 2020 | € 320 | € 18 | ○ |  |
| ○ | iis20L12 | 28 October 2020 | € 320 | | € 18 | ○ |  |
| ○ | iis20L13 | 28 October 2020 | € 520 (50mL syringe) 1) | | € 18 | ○ |  |

\*) Besides transport costs, other costs may be applicable, see separate form ‘Overview of costs”. All prices are in Euro and excluding VAT.

\*\*) Set price

1) From 2020 only syringes of 50 mL are available