**LUBRICANTS & OILS PROFICIENCY TESTS (August 2018 – December 2019)**

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| **Proficiency testing Scheme** | **Provisional Scope \*)** | **ID of PT** |
| Base Oil | TAN, Air release time, Colour, Conradson CR, Ramsbottom CR, Density, Evap by Noack, Flash Point, Kin Visco (40&100ºC), Visco Stab (40&100ºC), Visco. Index, Pour Point, Rust prev., Sulphur, Water and Water Separability. | iis19L03 |
| Engine Oil - fresh | Acid Number, Base Number, Colour, Conradson CR, Ramsbottom CR, Density, Evaporation loss by Noack, Flash Point, Foaming Characteristics, Kinematic Viscosity (40&100ºC), Viscosity Stabinger (40&100ºC), Viscosity Index, Viscosity Apparent (CSS), Viscosity HTHS, Nitrogen, Pour Point, Sulphate ash, Sulphur, Water and metals: Ca, P & Zn. | iis19L06 |
| Engine Oil - used | Acid Number, Base Number, Density, Flash Point, Fuel Dilution, Kinematic Viscosity (40&100ºC), Viscosity Index, Kinematic Viscosity Houillon & Water. A separate sample is available for 20 metals (iis19L07M). | iis19L07,  iis19L07M |
| Gear Oil - fresh | Acid Number, Copper Corrosion, Density, Flash Point, Foaming Characteristics, Kinematic Viscosity (40&100ºC), Viscosity Index, Pour Point, Rust prev., Sulphur, Water, Water Separability and metals: Ca, P & Zn. | iis19L01 |
| Gear Oil - used | Acid Number, Density, Flash Point, Kinematic Viscosity (40&100ºC), Viscosity Index, Water, level of contamination and metals: 20 elements. | iis19L02 |
| Grease | The sample is for tests from the specification ASTM D4950 profile and other tests: Cone Penetration, Cu-Corrosion 24 hrs at 100°C, Dropping Point, Extreme-Pressure Properties (four-ball method) (Weld Point, Load Wear Index, Last Non-Seizure Load), Leakage amount, Oil separation – Conical Sieve, Roll Stability ¼ and ½ scale penetrometer, Water Spray-off, Water Washout at 79°C, Wear Elementals (Ca, P and Zn) | iis18L08, iis19L08 |
| Hydraulic Fluid - fresh | Acid Number, Copper Corrosion, Density, Flash Point, Foaming Characteristics, Kinematic Viscosity (40&100ºC), Viscosity Stabinger (40&100ºC), Viscosity Index, Pour Point, Sulphur, Water, Water Separability and metals: Ca, P & Zn. | iis18L09, iis19L09 |
| Hydraulic Fluid - used | The main sample is for Acid Number, Density, Flash Point, Kinematic Viscosity (40&100ºC), Viscosity Stabinger (40&100ºC), Sulphur, Water and level of contamination. A separate sample is available for 20 metals (iis18L10M & iis19L10M): | iis18L10, iis18L10M, iis19L10, iis19L10M |
| Mineral Oil - PCB | Individual congeners Polychlorinated Biphenyls, Aroclors and Total Chloride. | iis18L13, iis19L13 |
| Transformer Oil - fresh | Neutralisation Number, Breakdown Voltage, Density, Di-electric Dissipation factor, Specific Resistance, Flash Point, Interfacial Surface Tension, Kinematic Viscosity and Water and metal deactivators. | iis18L11, iis19L11 |
| Transformer Oil - used | The main sample is for Neutralisation Number, Breakdown Voltage, Density, Di-electric Dissipation factor, Specific Resistance, Flash Point, Interfacial Surface Tension, Kinematic Viscosity (40ºC) and Water. Separate samples are available for Furanic components (iis18L12F & iis19L12F). | iis18L12, iis18L12F, iis19L12, iis19L12F |
| Transformer Oil - DGA | Dissolved gas analyses. (a 50 ml or 100 ml Syringe may be ordered) | iis18L14, iis19L14 |
| Turbine Oil – fresh | Acid Number, Density, Flash Point, Kinematic Viscosity (40&100ºC), Viscosity Index, Pour Point, Rust prev., Sulphur, Water Separability and metals: Ca, P & Zn. | iis19L04 |
| Turbine Oil - used | Acid Number, Colour, Density, Flash Point, insoluble color bodies, Kinematic Viscosity (40&100ºC), RPVOT, Viscosity Index, Water, Water Separability and Level of Contamination. | iis19L05 |

\*) 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 & OILS PT STARTING DATES (August 2018 – December 2019)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 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 |
| ○ | iis18L08 | 5 September 2018 | € 310 | | € 15 | ○ |  |
| ○ | iis18L09 | 24 October 2018 | € 310 | | € 15 | ○ |  |
| ○ | iis18L10 | 24 October 2018 | € 310 | € 400 \*\*) | € 15 | ○ |  |
| ○ | iis18L10M | 24 October 2018 | € 310 | € 15 | ○ |  |
| ○ | iis18L11 | 31 October 2018 | € 310 | | € 15 | ○ |  |
| ○ | iis18L12 | 31 October 2018 | € 310 | € 400 \*\*) | € 15 | ○ |  |
| ○ | iis18L12F | 31 October 2018 | € 310 | € 15 | ○ |  |
| ○ | iis18L13 | 31 October 2018 | € 310 | | € 15 | ○ |  |
| ○ | iis18L14 | 31 October 2018 | € 490 (50ml syringe) 1) | | € 15 | ○ |  |
| ○ | € 540 (100ml syringe) 1) | |  |
| ○ | iis19L01 | 3 April 2019 | € 310 | | € 15 | ○ |  |
| ○ | iis19L02 | 3 April 2019 | € 310 | | € 15 | ○ |  |
| ○ | iis19L03 | 1 May 2019 | € 310 | | € 15 | ○ |  |
| ○ | iis19L04 | 1 May 2019 | € 310 | | € 15 | ○ |  |
| ○ | iis19L05 | 1 May 2019 | € 310 | | € 15 | ○ |  |
| ○ | iis19L06 | 22 May 2019 | € 310 | | € 15 | ○ |  |
| ○ | iis19L07 | 22 May 2019 | € 310 | € 400 \*\*) | € 15 | ○ |  |
| ○ | iis19L07M | 22 May 2019 | € 310 | € 15 | ○ |  |
| ○ | iis19L08 | 28 August 2019 | € 310 | | € 15 | ○ |  |
| ○ | iis19L09 | 16 October 2019 | € 310 | | € 15 | ○ |  |
| ○ | iis19L10 | 16 October 2019 | € 310 | € 400 \*\*) | € 15 | ○ |  |
| ○ | iis19L10M | 16 October 2019 | € 310 | € 15 | ○ |  |
| ○ | iis19L11 | 23 October 2019 | € 310 | | € 15 | ○ |  |
| ○ | iis19L12 | 23 October 2019 | € 310 | € 400 \*\*) | € 15 | ○ |  |
| ○ | iis19L12F | 23 October 2019 | € 310 | € 15 | ○ |  |
| ○ | iis19L13 | 23 October 2019 | € 310 | | € 15 | ○ |  |
| ○ | iis19L14 | 23 October 2019 | € 500 (50ml syringe) 1) | | € 15 | ○ |  |
| ○ | € 550 (100ml syringe) 1) | |

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

**\*\*) Set price**

**1) Select the sample (syringe) of your interest**