

## **Akkrediteringens omfattning/Scope of Review**

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| Parameter<br><i>Parameter</i>                                       | Metod<br><i>Method</i>             | Mätprincip<br><i>Measuring principle</i> | Mätområde<br><i>Measurem. range</i> | Provtyp<br><i>Sample Type</i>                       | Anmärkning<br><i>Note</i>   |
|---|------------------------------------|--|-------------------------------------|---|---|
| Fasta föroreningar<br><i>Solid contaminants</i>                     | ASTM D5452-23                      | Gravimetri/<br><i>Gravimetry</i>         | 32 – 400°C<br>0,01–100 mg/l         | Gasolja/ <i>Gas oil</i><br>Fotogen/ <i>Kerosene</i> | Introduced –<br>Flexible accr.<br>2024-01-22  |
| Filtrerbarhet i kyla<br>(CFPP)<br><i>Cold filter plugging point</i> | EN 116:2015                        | Filtrering/<br><i>Filtration</i>         | -40 – 0°C                           | Gasolja/ <i>Gas oil</i>                             |   |
| Flampunkt<br><i>Flash Point</i>                                     | ASTM D92-18<br>aut.                | Cleveland Open Cup                       | 79 – 400°C                          | Smörjolja/<br><i>Lubricating oil</i>                |   |
|   | ASTM D93-20                        | Pensky-Martens<br>Closed Cup             | 40 – 150°C                          | Fotogen/ <i>Kerosene</i>                            |   |
|   |                                    | Pensky-Martens<br>Closed Cup             | 40 – 150°C                          | Gasolja/ <i>Gas oil</i>                             |   |
|   |                                    | Pensky-Martens<br>Closed Cup             | 40 – 150°C                          | Smörjolja/<br><i>Lubricating oil</i>                |   |
|   | IP 170/14                          | Abel closed cup                          | 30 – 75°C                           | Fotogen/ <i>Kerosene</i>                            |   |
|   | SS-EN 2592:2017                    | Cleveland Open Cup                       | 79 – 400°C                          | Smörjolja/<br><i>Lubricating oil</i>                |   |
|   | SS-EN ISO<br>2719:2016/<br>A1:2021 | Pensky-Martens<br>Closed Cup             | 40 – 150°C                          | Fotogen/ <i>Kerosene</i>                            |   |
|   |                                    | Pensky-Martens<br>Closed Cup             | 40 –150°C                           | Gasolja/ <i>Gas oil</i>                             |   |
|   |                                    | Pensky-Martens<br>Closed Cup             | 40 –150°C                           | Smörjolja/<br><i>Lubricating oil</i>                |   |
| Frys punkt<br><i>Freezing Point</i>                                 | ASTM D7153-22a<br>mod.             |  | -80 – +20 °C<br>-80 – +20 °C        | Bensin/ <i>Gasoline</i><br>Fotogen/ <i>Kerosene</i> | Rev. 22<br>Introduced –<br>Flexible accr.<br>2023-10-19<br>Rev. 22a<br>Introduced –<br>Flexible accr.<br>2024-01-22 |
|   | ASTM D2500-23                      |  | -63 – +20 C                         | Gasolja/ <i>Gas oil</i>                             | Introduced –<br>Flexible accr.<br>2024-01-22  |
|   | ASTM D5771-21                      |  |                                     |   |   |

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**Accreditation and Approval  
Document**

Documentnummer:  
**EL-CA-Q-X-SE-AAD102719**

Utgåva:

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| Parameter<br><i>Parameter</i>                                    | Metod<br><i>Method</i> | Mätprincip<br><i>Measuring principle</i> | Mätområde<br><i>Measur. range</i> | Provtyp<br><i>Sample Type</i>        | Anmärkning<br><i>Note</i>              |
|--|------------------------|--|-----------------------------------|--------------------------------------|--|
| volume   |                        |  |                                   |                                      |  |
| Värmevärde<br><i>Heat of combustion</i>                          | ASTM D3338-20a         | Beräkning/ <i>Calculation</i>            | 40 – 45 MJ/kg                     | Fotogen/ <i>Kerosene</i>             |  |
| Värmevärde (net)<br><i>Heat of combustion (net)</i>              | ASTM D4868-17          | Beräkning/ <i>Calculation</i>            | 40 – 45 MJ/kg                     | Gasolja/ <i>Gas oil</i>              |  |
| Värmevärde (gross)<br><i>Heat of combustion (gross)</i>          | ASTM D4868-17          | Beräkning/ <i>Calculation</i>            | 43 – 47 MJ/kg                     | Gasolja/ <i>Gas oil</i>              |  |
| Vätehalt<br><i>Hydrogen content</i>                              | ASTM D3343-22          | Beräkning/ <i>Calculation</i>            | 10 – 20 vikt/ <i>weight %</i>     | Fotogen/ <i>Kerosene</i>             | Introduced – Flexible accr. 2024-01-22 |
| Vattenavskiljningsförmåga, MSEP<br><i>Water Sep. Index, MSEP</i> | ASTM D3948-22          |  | 50 – 100 enheter/ <i>units</i>    | Fotogen/ <i>Kerosene</i>             | Introduced – Flexible accr. 2024-01-22 |
| Vattenavskiljningsförmåga, MSEP<br><i>Water Sep. Index, MSEP</i> | ASTM D7224-23          |  | 50 – 100 enheter/ <i>units</i>    | Fotogen/ <i>Kerosene</i>             | Introduced – Flexible accr. 2024-01-22 |
| Vattenhalt<br><i>Water content</i>                               | ASTM D6304-20          | Coulometric Karl Fischer                 | 0,005 – 2 vikt/ <i>weight %</i>   | Bensin/ <i>Gasoline</i>              |  |
|  |                        | Coulometric Karl Fischer                 | 0,005 – 2 vikt/ <i>weight %</i>   | Fotogen/ <i>Kerosene</i>             |  |
|  |                        | Coulometric Karl Fischer                 | 0,005 – 2 vikt/ <i>weight %</i>   | Gasolja/ <i>Gas oil</i>              |  |
|  |                        | Coulometric Karl Fischer                 | 0,005 – 2 vikt/ <i>weight %</i>   | Smörjolja/ <i>Lubricating oil</i>    |  |
| Vattentolerans<br><i>Water Reaction</i>                          | ASTM D1094-07          |  | 1 – 4 enheter/ <i>units</i>       | Bensin/ <i>Gasoline</i>              |  |
|  |                        |  | 1 – 4 enheter/ <i>units</i>       | Fotogen/ <i>Kerosene</i>             |  |
| Viskositet<br><i>Viscosity, 100 °C</i>                           | ASTM D445-21 aut.      | Viskosimeter<br><i>Viscometer</i>        | > 1 mm <sup>2</sup> /s            | Smörjolja/<br><i>Lubricating oil</i> |  |
|  | EN ISO 3104:2020 aut.  | Viskosimeter<br><i>Viscometer</i>        | > 1 mm <sup>2</sup> /s            | Smörjolja/<br><i>Lubricating oil</i> |  |
| Viskositet<br><i>Viscosity 40 °C</i>                             | ASTM D445-21 aut.      | Viskosimeter<br><i>Viscometer</i>        | >1 mm <sup>2</sup> /s             | Gasolja/ <i>Gas oil</i>              |  |
|  |                        | Viskosimeter<br><i>Viscometer</i>        | >1 mm <sup>2</sup> /s             | Smörjolja/<br><i>Lubricating oil</i> |  |
|  | EN ISO 3104:2020 aut.  | Viskosimeter<br><i>Viscometer</i>        | >1 mm <sup>2</sup> /s             | Gasolja/ <i>Gas oil</i>              |  |
|  |                        | Viskosimeter<br><i>Viscometer</i>        | >1 mm <sup>2</sup> /s             | Smörjolja/<br><i>Lubricating oil</i> |  |

Kemisk analys – Teknikområde: Oorganisk kemi  
*Chemical analysis – Technology Area: Inorganic chemistry*

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**Materialprovning/Material testing**

| <b>Teknikområde</b><br><i>Technical area</i>   | <b>Parameter</b><br><i>Parameter</i>                        | <b>Metod</b><br><i>Method</i> | <b>Mätprincip</b><br><i>Technique</i> | <b>Provtyp</b><br><i>Material</i>                | <b>Anmärkning</b><br><i>Note</i>                                   |
|--|---|-------------------------------|---------------------------------------|--|--|
| Mekanisk provning<br><i>Mechanical Testing</i> | Dragprovning<br><i>Tensile Testing</i>                      | SS-EN ISO 6892-1:<br>2019     |                                       | Metalliska material<br><i>Metallic materials</i> |  |
|  | Interlaminär<br>skjuvprovning<br><i>Short-Beam strength</i> | ASTM D2344-16                 |                                       | Kompositer<br><i>Composites</i>                  |  |
|  | Hårdhetsprovning<br><i>Hardness Testing</i>                 | SS-EN ISO 6507-1:<br>2018     | Vickers                               | Metalliska material<br><i>Metallic materials</i> |  |
| Konditionering<br><i>Conditioning</i>          | Fuktkonditionering<br><i>Moisture conditioning</i>          | ASTM<br>D5229/D5229M -20      |                                       | Kompositer<br><i>Composites</i>                  | Endast metod B,<br>C och D<br><i>Only Procedure<br/>B, C and D</i> |
| Korrosionsprovning<br><i>Corrosion Testing</i> | Saltdimma<br><i>Salt Spray</i>                              | ASTM B117-19                  |                                       | Metalliska material<br><i>Metallic materials</i> |  |
| Metallografi<br><i>Metallography</i>           | Makro, Mikro<br><i>Macro, Micro</i>                         | SS-EN ISO<br>17639:2022       |                                       | Svets<br><i>Welds</i>                            |  |

**Kommentar:**

Element Materials Technology AB, ASJ vägen 7 i Linköping, har flexibel ackreditering.

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