



Rolls-Royce Solutions GmbH

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Mr.
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Spectro | Jet-Care
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Date: 23 April 2024
Ref.: TQMC

Qualification and Approval of External Laboratories for Rolls-Royce Solutions GmbH

Dear Sir or Madam,

based on the signed request for approval, you provided on 23 January 2024, the Laboratories

Palace International Ltd trading as Spectro | Jet-Care in Odiham, UK
Spectro Oil AG in Kaiseraugst, Switzerland
Jet-Care International Inc. in Cedar Knolls, New Jersey, USA

are herewith approved to perform the following Fuels and Lubricants Quality Analysis Services via the delivery standard MTL 5120, Version 2022:

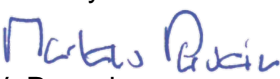
Oil Analysis	Level 3 – Root-Cause Analysis Level
Coolant Analysis	Level 1 – Routine Analysis Level

The approval remains valid until it is withdrawn.

Please note that any modification in the analysis methods will invalidate the accreditation in accordance with our terms of approval (MTL 5120).

Yours sincerely

Rolls-Royce Solutions GmbH


i.V. Perwein


i.A. Bär

Attachment 1, 2
Attachment 3

Definition of Analysis Levels Oil, Diesel Fuel, Coolant
Signed request for approval by Spectro

Board of Management: Dr. Jörg Stratmann (President and CEO), Dr. Thelse Godewerth, Dr. Andreas Strecker.
Chairwoman of the Supervisory Board: Jasmin Staiblin. Domicile: Friedrichshafen. Register Court: Ulm, Nr. I No. HRB 630 227.
Bank Details: Deutsche Bank AG Stuttgart: (all currencies) SWIFT/BIC DEUTDE33XXX, IBAN DE35 6007 0070 0162 9039 00.
Commerzbank AG Friedrichshafen: (EUR) SWIFT/BIC COBADEFF651, IBAN DE68 6514 0072 0170 0038 00.
V.A.T. No. DE 811121844



Attachment 1 – Definition of Oil Analysis Levels

Analysis Level 1 - Routine Analysis Level

- Viscosity at 40°C
- Viscosity at 100°C
- Flashpoint COC or PM
- Water content
- Element quantification via ICP/OES
- IR-identification with fresh reference

Analysis Level 2 – Detailed Analysis Level

- All analysis methods of Analysis Level 1
- Soot content
- Oxidation
- Nitration
- Ethylene Glycol

Analysis Level 3 – Root-Cause Analysis Level

- All analysis methods of Analysis Level 1
- All analysis methods of Analysis Level 2
- Viscosity index VI
- Total base number
- Total acid number
- i-pH value



Attachment 2 – Definition of Coolant Analysis Level

Analysis Level 1 - Routine Analysis Level

Appearance
Precipitation
Odour
Density
Refractive Index
Brix
Coolant Concentration
Bacteria
Funghi/yeasts
pH-value
Conductivity
Alkalinity
Anion quantification via IC
Sum of Anions
Sum of Alkaline earths
Element quantification via ICP/OES