



FÉDÉRATION INTERNATIONALE
DE MOTOCYCLISME

**FIM FUELS
REGULATIONS
2021**

FIM Fuels Regulation

Règlement FIM pour les essences

| Modifications log | | |
|------------------------------|---------------------------|--------------------------|
| Updated | Applicable as from | Modified articles |
| January 1 st 2021 | 01.01.2021 | Creation |



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A. RACE FUELS

Fuel companies which supply “race” fuels (fuels other than those obtained at public pump stations) to participating teams/riders must test their fuel at against all the FIM specifications set out in **Art. C** of this regulation.

1. Conformed fuels

If the specifications of the fuel are in conformity to **Art. C** of this regulation, a certificate containing a test report and batch number will be issued to the fuel company.

The fuel company shall be able to provide a copy of such certificate to their client rider/teams before they take part in a race.

A list of fuels which are in conformity with FIM specifications are listed in **Art. F** of this regulation.

2. Appointed supplier(s) to event(s)

In the cases in which only fuel from the appointed supplier is permitted (for a specific event or the entire World Championship, Prize or Cup), the aforementioned fuel shall have been previously tested in a FIM appointed laboratory in order to test its conformity with the FIM specifications as set out in **Art. C** of this regulation:

- in case of conformity, a certificate of conformity (including test report and tested batch number) shall be available and **Art. F** of this regulation applies in case of controls for the riders/teams;
- in case the conformity is not achieved, the FMN of the organising country/the Organiser/the Promoter shall ask the FIM for a waiver in order to enable the use of fuel not corresponding to FIM specifications. If the waiver is granted, the riders/teams will be responsible for using the fuel provided without changing its composition. Controls may be carried out by FIM.

B. TESTING LABORATORY

For question regarding the “race” fuels and/or the testing of the fuels please contact the aforementioned testing laboratory:

Intertek (Schweiz) AG
Analytical Testing - Fuel, Lubricants & Combustible
Wagistraße 2
8952 Schlieren
Switzerland

Telephone: +41 43 433 78 10
Fax: +41 43 433 78 19
Email contact: fimfuels@intertek.com.

C. FIM SPECIFICATIONS FOR UNLEADED FUELS OR MIXTURES OF UNLEADED FUELS

The following properties shall be within the following thresholds (for each property, the relative test methods to be used for the measurement are indicated):

| Property | Units | Min. ¹ | Max. ¹ | Test Methods ² | |
|---|----------------------|-------------------|-------------------|---------------------------|--------------------------------|
| Density at 15°C | [kg/m ³] | 720 | 785 | EN ISO 12185 | ASTM D4052 |
| RON | - | 95 | 102 | EN ISO 5164 | ASTM D2699 |
| MON | - | 85 | 90 | EN ISO 5163 | ASTM D2700 |
| Oxidation stability | [min] | 360 | | EN ISO 7536 | ASTM D525 |
| Vapour pressure (DVPE) | [kPa] | | 100 | EN 13016-1 | ASTM D5191 |
| Aromatics | % (V/V) | | 35.0 | EN ISO 22854 | ASTM D6839 |
| Benzene | % (V/V) | | 1.0 | EN ISO 22854 | ASTM D6839 or D5580 |
| Diolfins total | % (m/m) | | 1.0 | GC-MS | HPLC |
| Lead | [mg/L] | | 5.0 | ICP-OES | AAS |
| Manganese | [mg/L] | | 2.0 | ICP-OES | AAS |
| Nitrogen | % (m/m) | | 0.2 | ASTM D 4629 | ASTM 5762 |
| Olefins | % (V/V) | | 18.0 | EN ISO 22854 | ASTM D6839 |
| Oxygen (includes 10% ethanol allowance) | % (m/m) | | 3.7 | EN ISO 22854 | EN 13132 or elemental analysis |
| Sulphur | [mg/kg] | | 10.0 | EN ISO 20846 | ASTM D5453 |
| Distillation: | | | | EN ISO 3405 | ASTM D86 |
| E at 70°C | % (V/V) | 20.0 | 52.0 | | |
| E at 100°C | % (V/V) | 46.0 | 72.0 | | |
| E at 150°C | % (V/V) | 75.0 | | | |
| Final Boiling Point | [°C] | | 210 | | |
| Residue | % (V/V) | | 2.0 | | |
| Oxygenates: | | | | EN ISO 22854 | EN 13132 |
| Methanol | % (V/V) | | 3.0 | | |
| Ethanol | % (V/V) | | 10.0 | | |
| Isopropanol | % (V/V) | | 12.0 | | |
| Isobutanol | % (V/V) | | 15.0 | | |
| tert-Butanol | % (V/V) | | 15.0 | | |
| Ethers (C5 or higher) | % (V/V) | | 22.0 | | |
| Others | % (V/V) | | 15.0 | | |

Table 1 : Specifications and test methods (does not include the visual inspection)

In addition to these specifications, the appearance of the fuel, controlled by visual inspection must be clear, bright and free from solid matter and undissolved water.

¹ All reported min. and max. thresholds do not include the tolerance, which needs to be calculated in accordance with ISO 4259 and taken into account to correct the min. and max. thresholds

² In case of dispute the test method listed in **bold** will be the reference

The total of individual hydrocarbon components present at concentrations of less than 5% (m/m) must constitute at least 30% (m/m) of the fuel. The test method will be GC-FID (gas chromatography-flame ionisation detector) and/or GC-MS (gas chromatography-mass spectrometry).

The total concentration of naphthenes, olefins and aromatics classified by carbon number must not exceed the values given in the following table:

| % (m/m) | C4 | C5 | C6 | C7 | C8 | C9 + |
|------------|----|----|-----|----|----|------|
| Naphthenes | 0 | 5 | 10 | 10 | 10 | 10 |
| Olefins | 5 | 20 | 20 | 15 | 10 | 10 |
| Aromatics | - | - | 1.2 | 35 | 35 | 30 |

Table 2 : Naphtenes, Olefins and aromatics contents

Bicyclic and polycyclic olefins are not permitted. The fuel must contain no substances which are capable of exothermic reaction in absence of external oxygen.

D. FIM SPECIFICATIONS FOR MIXTURES OF UNLEADED FUEL(S) AND LUBRICANT

The lubricant must not:

1. change the composition of the fuel fraction when added to the fuel
2. contain any nitro-compounds, peroxides or any other engine power boosting additives
3. contribute to an improvement in overall performance in any way
4. show a reduction in mass by evaporation of more than 10% (m/m) during the distillation up to 250°C (test method: simulated distillation GC)
5. contain more than 10% of anti-knock agents (lead, manganese, iron) (test method: ICP-OES).

Moreover, the following specifications are set for the mixture of unleaded fuel(s) and lubricant:

The following properties shall be within the following thresholds (for each property, the relative test methods to be used for the measurement are indicated):

| Property | Units | Min. | Max. ¹ | Test Methods | |
|------------------------------|----------------------|------|-------------------|--------------|------------|
| Density at 15°C ³ | [kg/m ³] | 690 | 815 | EN ISO 12185 | ASTM D4052 |
| RON | - | | 102 | EN ISO 5164 | ASTM D2699 |
| MON | - | | 90 | EN ISO 5163 | ASTM D2700 |

³ For the density measurement, the min. and max. thresholds do include the tolerance

E. FUELS CONTROLS

The FIM may require fuel controls, i.e. controls of the unleaded fuel, mixture of unleaded fuels or mixture of unleaded fuel and lubricant, used by riders/teams at events. These controls involve an initial sampling at the event and further testing in the FIM appointed laboratory.

1. Sampling

- 1) The FIM Technical Director (or the FMNR Chief Technical Steward when there is no FIM Technical Director appointed) is the sole official responsible for the sampling management and supervision.
- 2) Riders/teams selected for fuel controls are directed to proceed with their vehicles to the area that has been designated for this purpose.
- 3) The FIM Technical Director/FMNR Chief Technical Steward collects the fuel from the motorcycle by using only new sample containers and pipettes/hand pumps.
- 4) The fuel is transferred through the use of the pipette/hand pump directly from the fuel tank into three containers, denominated A, B and C. The containers are closed and sealed by the FIM Technical Director/FMNR Chief Technical Steward.
- 5) The FIM Technical Director/FMNR Chief Technical Steward fills in (in all its parts) and signs the Fuel Sample Declaration Form (see forms). The rider or a team representative also signs this Form, after verifying that all the information is correct.
- 6) The FIM Technical Director/FMNR Chief Technical Steward prepares an appropriate shipping box containing the collected A, B and C samples and a copy of the respective, signed, Fuel Sample Declaration Form. The box is then shipped to the FIM appointed laboratory by courier.

2. Testing

- 7) One or more properties to be checked (following the relevant testing method as per **Art. C** and **D**) are set by the FIM for each selected rider/team.
- 8) Sample A is the first sample to be tested by the FIM appointed laboratory.
- 9) Sample B can be used for a second analysis if required by the FIM. The test result of the A or B sample more favourable to the rider/team is taken into account. Costs for the shipping and testing of sample A and B are paid by FIM.
- 10) As soon as possible after completing the testing, the FIM appointed laboratory reports the test results directly to the responsible CTI Coordinator.
- 11) For negative cases (i.e. conformity of the tested property(ies) with the specification), the riders/teams concerned will be individually informed by the FIM in due course, copying the rider/team's FMN, the FIM Technical Director/FMNR Chief Technical Steward, the competent authority (e.g. Race Direction, International Jury), the CTI Director, the Director and Coordinator(s) of the sporting Commission concerned.

- 6) Only for positive cases following testing of sample A or B or A and B (i.e. non-conformity of one or more properties*), the responsible CTI Coordinator notifies by electronic mail* the rider/team concerned (including the testing results) and, 24 hours after, forwards the relevant information to the rider/team's FMN, the FIM Technical Director/FMNR Chief Technical Steward, the competent authority (e.g. Race Direction, International Jury), the CTI Director, the Director and Coordinator(s) of the sporting Commission concerned.

*Note: The non-conformity of one property (except the Appearance) is sufficient for declaring non-conformity of the fuel or the mixture.

- 7) If the rider/team wishes to request a counter-expertise, he must notify the responsible CTI Coordinator by electronic mail* accordingly, within 72 hours of receipt by the FIM of the delivery status notification pertaining to the notification of the test results to the rider/team.

- If a counter-expertise is requested, the sample dedicated to the counter-expertise is sample C and the test shall aim at checking the same property(ies) previously checked on sample A/B. The rider/team can request that sample C be tested at one of the available FIM appointed laboratories. Costs for shipping and testing of sample C are paid by the rider/team concerned.

Upon notification of the sample C results, the responsible CTI Coordinator notifies by electronic mail⁴ the rider/team concerned (including the testing results) and forwards the relevant information to the rider/team's FMN, the FIM Technical Director/FMNR Chief Technical Steward, the competent authority (e.g. Race Direction, International Jury), the CTI Director, the Director and Coordinator(s) of the sporting Commission concerned.

- If no counter-expertise is requested within the time limit, the responsible CTI Coordinator forwards the relevant information by electronic mail* the rider/team's FMN, the FIM Technical Director/FMNR Chief Technical Steward), the competent authority (e.g. Race Direction, International Jury), the CTI Director, Director and Coordinator(s) of the sporting Commission concerned.

- 8) The competent authority of the event concerned (e.g. Race Direction, International Jury) makes a decision based on the information received. The Coordinator of the sporting Commission concerned notifies the rider/team concerned regarding the decision by electronic mail*.

The non-conformity of :

- A sample (in the cases B sample was not used) or
- B sample (in the cases A sample result was not conclusive) or
- A and B samples or

⁴ The receipt of a delivery status notification will be deemed as proof of delivery

- A and B and C samples (in the cases B sample was used and a counter-expertise was requested) or
- A and C samples (in the cases B sample was not used and a counter-expertise was requested)


automatically results in the disqualification of the rider/team from the entire event.

No disqualification will be applied in case of conformity of sample C.

Furthermore, in any case, other penalties may be applied.

- 9) The rider/team has the right to appeal against the decision of competent authority of the event concerned (e.g. Race Direction, International Jury) in accordance with FIM Disciplinary and Arbitration Code applicable to the relevant discipline.

F. FUEL SAMPLE DECLARATION FORM

|  <h3 style="margin: 0;">FIM Fuel Sample Declaration Form</h3> | | | | | | | | | | | | |
|---|--------------------------------|------------------------------------|-----------------------------------|-----------------------------------|-------------------|--|-----------------|--|-----------------|--|-----------------|--|
| Discipline | | | | | | | | | | | | |
| IMN (xxx/xx) | | | | | | | | | | | | |
| Rider/team's name | | | | | | | | | | | | |
| Rider/team's number | | | | | | | | | | | | |
| Rider/team's email or telephone number | | | | | | | | | | | | |
| Team | | | | | | | | | | | | |
| Vehicle's make | | | | | | | | | | | | |
| Fuel's make and type | | | | | | | | | | | | |
| Fuel origin (public station or race supplier) | | | | | | | | | | | | |
| Fuel samples taken on date (dd/mm/yy) | | | | | | | | | | | | |
| Fuel samples taken at (right before or after): | | | | | | | | | | | | |
| MOTOCROSS | TRIAL | TRACK RACING | ENDURO /ISDE | RALLIES /BAJAS | | | | | | | | |
| Practice <input type="checkbox"/> | Day 1 <input type="checkbox"/> | Heat n°__ <input type="checkbox"/> | Day 1 <input type="checkbox"/> | Day 1 <input type="checkbox"/> | | | | | | | | |
| Qualifying race <input type="checkbox"/> | Day 2 <input type="checkbox"/> | | Day 2 <input type="checkbox"/> | Day 2 <input type="checkbox"/> | | | | | | | | |
| Race 1 <input type="checkbox"/> | | | Day n°__ <input type="checkbox"/> | Day n°__ <input type="checkbox"/> | | | | | | | | |
| Race 2 <input type="checkbox"/> | | | | | | | | | | | | |
| <table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">Container seal n°</th> </tr> </thead> <tbody> <tr><td style="width: 50px;">Sample A</td><td></td></tr> <tr><td>Sample B</td><td></td></tr> <tr><td>Sample C</td><td></td></tr> </tbody> </table> | | | | | Container seal n° | | Sample A | | Sample B | | Sample C | |
| Container seal n° | | | | | | | | | | | | |
| Sample A | | | | | | | | | | | | |
| Sample B | | | | | | | | | | | | |
| Sample C | | | | | | | | | | | | |
| <p>The above listed details refer to fuel samples taken from the fuel tank of the motorcycle specified.</p> <p>Sample A is the first testing sample to be used by the FIM appointed laboratory</p> <p>Sample B can be used for a second analysis if required by the FIM</p> <p>Sample C is used if a counter-expertise is required by the rider/team.</p> <p>The serial numbers of the vial seals and the accuracy of the listed information have been verified.</p> | | | | | | | | | | | | |
| Rider or team responsible name | | | | | | | | | | | | |
| Rider or team responsible signature | | | | | | | | | | | | |
| FIM Technical Director/ FMNR Chief Technical Steward name | | | | | | | | | | | | |
| FIM Technical Director/ FMNR Chief Technical Steward signature | | | | | | | | | | | | |

G. LIST OF APPROVED FUELS⁵

The fuels are listed in 2 categories:

- **Category 1:** MotoGP, Moto2, Moto3, MotoGP Rookies Cup
- **Category 2:** All others

| ENI | | | | | | |
|-----|-----------------|--------------|-----------|-----------------|----------|---|
| N° | Sample incoming | Dossier | Batch/Lot | Reference | Category | |
| 2 | 19/01/12 | 112052/01 | 11/314 | ENI SBK 2010 B | 1 | 2 |
| 4 | 04/03/13 | 113085/02 | | Eni Blu super + | 1 | 2 |
| 5 | 22/05/13 | 113085/03 | 13/002 | Eni Blu super + | 1 | 2 |
| 6 | 24/06/13 | 113085/04 | 13-131 | SF-S | 1 | 2 |
| 7 | 03/09/13 | 113085/05 | PP130540 | SF-S | 1 | 2 |
| 8 | 20/01/14 | 114053/01 | PP130711 | Eni SF-S | 1 | 2 |
| 9 | 31/01/14 | 114053/02 | 14/001 | Eni Blu super + | 1 | 2 |
| 10 | 10/02/15 | 115095/01#01 | PP 140390 | SF-S | 1 | 2 |
| 11 | 02/03/15 | 115095/02 | PTMG 01 | Eni Blu Super+ | 1 | 2 |
| 12 | 09/03/15 | 115095/03#01 | PP 150065 | Eni SF S | 1 | 2 |
| 13 | 15/02/16 | 116162/01 | 3391 | SF-S 102 | 1 | 2 |
| 14 | 08/04/16 | 116162/02 | E031-16 | Eni SF-S | 1 | 2 |

| Haltermann ETSP | | | | | | |
|-----------------|-----------------|-----------------|---------------|-----------------|----------|---|
| N° | Sample incoming | Dossier | Batch/Lot | Reference | Category | |
| 2 | 04/04/13 | 113118/03 | 13-04/3015 | ESC 1954 | | 2 |
| 5 | 17/10/13 | 113118/17 | 13-10/3157 | TBX 4 EVO 2 | | 2 |
| 6 | 17/10/13 | 113118/18 | 13-10/3160 | TBX 5 EVO 2 | | 2 |
| 7 | 17/10/13 | 113118/19 | 13-10/3161 | XS EVO 2 | | 2 |
| 8 | 14/03/14 | 114152/01 | 14-03/3306 | ESC LC5 | 1 | 2 |
| 9 | 04/08/14 | 114152/02 | 14-07/3434 | TBX 5 EVO 3 | | 2 |
| 11 | 10/12/15 | 115176/02 | 15-12/3865 | ESC 1935 | 1 | 2 |
| 12 | 09/03/16 | 116248/01 | 15-10/3833 | IRF 102 | 1 | 2 |
| 13 | 29/08/11 | 111045/05#01-02 | BI-11-08/2595 | ESC1933(APA001) | 1 | 2 |
| 15 | 20/07/16 | 116248/05 | BI 16-07/4077 | ESC STRAT 5 | 1 | 2 |
| 16 | 22/08/16 | 116248/07 | BI 16-08/4096 | ESC LC6 | 1 | 2 |
| 17 | 11/01/17 | 117019/06 | BI 17-01/4185 | ESC 1955 A | | 2 |
| 18 | 31/03/17 | 117019/07 | BI 17-03/4282 | ESC LC6 | 1 | 2 |
| 19 | 14/07/17 | 117019/08#01 | BI 17-07/4362 | ESC LC6 | 1 | 2 |
| 20 | 21/08/18 | 118082/09 | BI 18-08/4698 | ESC LC6 | 1 | 2 |
| 21 | 15/03/19 | 119076/04 | BI 19-02/4826 | ESC 1955 | | 2 |
| 22 | 22/05/19 | 119076/07 | BI 19-05/4905 | STRATO 5 | 1 | 2 |
| 23 | 06/06/19 | 119076/09 | BI 19-06/4921 | ESC LC6 | 1 | 2 |
| 24 | 08/01/20 | 120019/01 | BI 19-12/5078 | STRATO 5 | 1 | 2 |
| 25 | 10/01/20 | 120019/02 | BI 20-01/5084 | STRATO 5 | 1 | 2 |
| 26 | 23/01/20 | 120019/03 | BI 20-01/5094 | ESC 1955 | | 2 |

⁵ The approved fuels listed here above are classified by manufacturer's alphabetical order to facilitate the reading

Lantmännen Aspen

| N° | Sample incoming | Dossier | Batch/Lot | Reference | Category | |
|----|-----------------|-----------|-----------|-----------|----------|---|
| 1 | 09/08/17 | 117548/01 | N/A/ | NEW AR | 1 | 2 |

Lukoil

| N° | Sample incoming | Dossier | Batch/Lot | Reference | Category | |
|----|-----------------|-----------|-----------|-------------------|----------|---|
| 1 | 09/05/16 | 116405/01 | #1 | Sporting gasoline | 1 | 2 |
| 2 | 03/08/16 | 116405/03 | 1330 | Gasoline "SPORT" | 1 | 2 |

P1 Racing fuels

| N° | Sample incoming | Dossier | Batch/Lot | Reference | Category | |
|----|-----------------|-----------|-----------|-------------------|----------|---|
| 1 | 11/01/19 | 119033/01 | | SBX (P-RG-008-03) | 1 | 2 |

Panta

| N° | Sample incoming | Dossier | Batch/Lot | Reference | Category | |
|----|-----------------|-----------|-----------|-----------|----------|---|
| 3 | 27/05/14 | 114219/01 | | K4 | 1 | 2 |
| 4 | 18/05/15 | 115206/01 | | | 1 | 2 |
| 5 | 05/04/16 | 116283/02 | 19/16 | K4 | 1 | 2 |
| 6 | 15/03/17 | 117183/01 | 01-17 | Mtv4T01 | 1 | 2 |
| 7 | 15/03/17 | 117183/02 | 22-17 | K4 | 1 | 2 |

Petronas

| N° | Sample incoming | Dossier | Batch/Lot | Reference | Category | |
|----|-----------------|--------------|-----------|----------------------------------|----------|---|
| 1 | 15/11/19 | 119415/01#01 | M2A | Petronas Primax Pro-Race 1902M2A | 1 | 2 |

Race Republic

| N° | Sample incoming | Dossier | Batch/Lot | Reference | Category | |
|----|-----------------|-----------|-----------|-----------------------|----------|---|
| 1 | 11/02/14 | 114101/01 | | P1 102 RX racing fuel | 1 | 2 |

Renegade

| N° | Sample incoming | Dossier | Batch/Lot | Reference | Category | |
|----|-----------------|-----------|-----------|-----------|----------|---|
| 1 | 17/04/13 | 113179/01 | 14213 | GP4-2/7 | 1 | 2 |

Repsol

| N° | Sample incoming | Dossier | Batch/Lot | Reference | Category | |
|----|-----------------|--------------|-----------|------------|----------|---|
| 1 | 14/02/12 | 112101/01 | | CTR-55-HRC | 1 | 2 |
| 2 | 18/02/13 | 113087/01 | | CTR-55 HRC | 1 | 2 |
| 3 | 04/02/14 | 114085/01 | | CTR-55 HRC | 1 | 2 |
| 4 | 29/01/15 | 115069/01 | | CTR-55-HRC | 1 | 2 |
| 5 | 10/11/15 | 115069/02#01 | | CTR-55-HRC | 1 | 2 |
| 6 | 20/04/16 | 116362/01 | 2016/01 | CTR-19-MH | 1 | 2 |
| 7 | 25/10/16 | 116362/02 | | CTR-55 HRC | 1 | 2 |
| 8 | 15/03/17 | 117179/01 | 2017/01 | CTR-19-MH | 1 | 2 |
| 9 | 22/11/17 | 117179/02 | | CTR-55-HRC | 1 | 2 |
| 10 | 05/04/18 | 118280/01 | | CTR-55-HRC | 1 | 2 |
| 11 | 05/04/18 | 118280/02 | | CTR-19 | 1 | 2 |
| 12 | 29/11/18 | 118280/03 | | CTR-55-HRC | 1 | 2 |
| 13 | 25/03/19 | 119117/01 | | CTR-55 | 1 | 2 |
| 14 | 12/09/19 | 119117/02 | 1-2019 | CTR-19 | 1 | 2 |
| 15 | 01/09/20 | 120024/01 | | CTR-55 | 1 | 2 |

Scuderia Braunschweig

| N° | Sample incoming | Dossier | Batch/Lot | Reference | Category | |
|------|-----------------|-----------|-----------|-----------|----------|---|
| Scu1 | 10/07/19 | 119278/01 | 1907 | SGR102 | | 2 |

Shell

| N° | Sample incoming | Dossier | Batch/Lot | Reference | Category | |
|----|-----------------|--------------|-----------|-------------------------|----------|---|
| | | | | | 1 | 2 |
| 1 | 25/05/11 | 111008/06 | PR4414 | PR4414 - Ducati Fuel G2 | 1 | 2 |
| 2 | 09/02/12 | 112091/01 | PR4666 | Ducati Fuel Duc 3 | 1 | 2 |
| 3 | 13/02/12 | 112091/02 | PR4670 | RD 05-08-Fuel | 1 | 2 |
| 4 | 13/03/12 | 112091/03 | PR4696 | Ducati Fuel Duc 10 | 1 | 2 |
| 5 | 21/03/12 | 112091/05 | PR4719 | Racing Fuel - RT | 1 | 2 |
| 6 | 27/03/12 | 112091/06 | PR4722 | Racing Fuel - BF | 1 | 2 |
| 7 | 13/06/12 | 112091/07 | PR4826 | Ducati Fuel DUC 10 | 1 | 2 |
| 8 | 28/01/13 | 113058/01 | PR5050 | Ducati Fuel Duc 10 | 1 | 2 |
| 9 | 20/02/13 | 113058/02 | PR5088 | Ducati Fuel Duc 10 | 1 | 2 |
| 10 | 14/06/13 | 113058/03 | PR5193 | Ducati Fuel Duc 10 | 1 | 2 |
| 11 | 06/12/13 | 113058/04 | PR5383 | Ducati Fuel Duc 10 | 1 | 2 |
| 12 | 27/12/13 | 113058/05 | PR5438 | Ducati Fuel Duc 12 | 1 | 2 |
| 13 | 10/03/14 | 114140/01 | PR5498 | Ducati Fuel Duc 12 | 1 | 2 |
| 14 | 04/06/14 | 114140/06 | PR5640 | Ducati Fuel Duc 12 | 1 | 2 |
| 15 | 22/08/14 | 114140/11 | PR5803 | Ducati Fuel Duc 12 | 1 | 2 |
| 17 | 27/11/14 | 114140/13 | PR5941 | Ducati Fuel Duc 12 | 1 | 2 |
| 18 | 16/02/15 | 115104/01 | PR6084 | Ducati Fuel Duc 30 | 1 | 2 |
| 19 | 07/05/15 | 115104/02 | PR6198 | Ducati Fuel Duc 30 | 1 | 2 |
| 20 | 01/06/15 | 115104/03 | PR6235 | Ducati Fuel Duc 30 | 1 | 2 |
| 21 | 27/07/15 | 115104/04 | PR6293 | Ducati Fuel Duc 30 | 1 | 2 |
| 22 | 23/10/15 | 115104/05 | PR6395 | Ducati Fuel Duc 30 | 1 | 2 |
| 23 | 13/01/16 | 116063/01 | PR6456 | Ducati Fuel Duc 30 | 1 | 2 |
| 24 | 21/04/16 | 116063/02 | PR6605 | Ducati Fuel Duc 30 | 1 | 2 |
| 25 | 02/08/16 | 116063/05 | PR6697 | Ducati Fuel Duc 50 | 1 | 2 |
| 26 | 09/09/16 | 116063/06 | PR6730 | Ducati Fuel Duc 51 | 1 | 2 |
| 27 | 17/10/16 | 116063/07 | PR6795 | Ducati Fuel Duc 30 | 1 | 2 |
| 28 | 20/02/17 | 117138/01 | PR6914 | Ducati Fuel Duc 50 | 1 | 2 |
| 29 | 08/05/17 | 117138/02 | PR6980 | Ducati Fuel Duc 30 | 1 | 2 |
| 30 | 08/05/17 | 117138/03 | PR6989 | Ducati Fuel Duc 53 | 1 | 2 |
| 31 | 09/06/17 | 117138/04 | PR7042 | Ducati Fuel Duc 53 | 1 | 2 |
| 32 | 11/07/17 | 117138/05 | PR7074 | Ducati Fuel Duc 50 | 1 | 2 |
| 33 | 04/12/17 | 117138/06 | PR7219 | Ducati Fuel Duc 53 | 1 | 2 |
| 34 | 06/02/18 | 118039/01 | PR7275 | Ducati Fuel Duc 30 | 1 | 2 |
| 35 | 09/02/18 | 118039/02 | PR7308 | Ducati Fuel | 1 | 2 |
| 36 | 09/02/18 | 118039/03 | PR7313 | Ducati Fuel | 1 | 2 |
| 37 | 20/02/18 | 118039/04 | PR7324 | Ducati Fuel | 1 | 2 |
| 38 | 27/02/18 | 118039/05 | PR7331 | Ducati Fuel | 1 | 2 |
| 39 | 21/03/18 | 118039/06 | PR7361 | Ducati Fuel | 1 | 2 |
| 40 | 16/07/18 | 118039/07 | PR7519 | Ducati Fuel | 1 | 2 |
| 41 | 25/07/18 | 118039/08 | PR7531 | Ducati Fuel | 1 | 2 |
| 42 | 14/08/18 | 118039/09 | PR7557 | Ducati Fuel | 1 | 2 |
| 43 | 16/11/18 | 118039/10 | PR7652 | Ducati Fuel | 1 | 2 |
| 44 | 30/01/19 | 119075/01 | PR7674 | Shell V-Power | 1 | 2 |
| 45 | 13/05/19 | 119075/02 | PR7832 | Ducati Fuel | 1 | 2 |
| 46 | 05/08/19 | 119075/03 | PR7917 | Ducati Fuel | 1 | 2 |
| 47 | 24/12/19 | 119075/04 | PR8101 | Ducati Fuel | 1 | 2 |
| 48 | 29/01/20 | 120070/01#01 | PR8129 | Ducati Fuel | 1 | 2 |

Showa Shell Sekiju

| N° | Sample incoming | Dossier | Batch/Lot | Reference | Category | |
|----|-----------------|-----------|-----------|-----------|----------|---|
| 1 | 10/07/14 | 114266/01 | | | 1 | 2 |

Slovakia Ring Agency

| N° | Sample incoming | Dossier | Batch/Lot | Reference | Category | |
|----|-----------------|-----------|-----------|---------------------|----------|---|
| 1 | 20/03/18 | 118224/01 | | OMV MaxxMotion 100+ | 1 | 2 |

Soldà Vladimiro SpA (Wladoil)

| N° | Sample incoming | Dossier | Batch/Lot | Reference | Category | |
|----|-----------------|-----------|-----------|--------------|----------|---|
| 1 | 27/05/16 | 116466/01 | 16/05/04 | WLADOGAS BB1 | 1 | 2 |

Total (1/3)

| N° | Sample incoming | Dossier | Batch/Lot | Reference | Category | |
|----|-----------------|------------------------|--------------------------|---------------------------------|----------|---|
| | | | | | | |
| 1 | 30/12/11 | 111083/18 | WSBK-FIM, 01220581U | MOTO 4TMAX, O1220561U | 1 | 2 |
| 2 | 09/01/12 | 112012/01 | O1220559U | YMH48 | 1 | 2 |
| 3 | 01/03/12 | 112012/03 | P0120617U | MITS46 | 1 | 2 |
| 4 | 01/03/12 | 112012/04 | P0220640U | MITS42 | 1 | 2 |
| 5 | 07/03/12 | 112012/05 | P0220643U | Moto 4SGP | 1 | 2 |
| 6 | 30/04/12 | 112012/07 | P0420713U | Moto 4SGP | 1 | 2 |
| 7 | 31/05/12 | 112012/08 | P0520750U | YMH48 | 1 | 2 |
| 8 | 27/06/12 | 112012/09 | P0520756U | MITS 46 | 1 | 2 |
| 9 | 12/07/12 | 112012/10 | P0720847U | SPB MOTO 4T MAX | 1 | 2 |
| 10 | 13/08/12 | 112012/11 | P0620824U | ESSENCE SP MITS 43 | 1 | 2 |
| 11 | 07/01/13 | 113014/01 | P1221076U | SPB HRC41 | 1 | 2 |
| 12 | 07/01/13 | 113014/02 | P1221064U | MOTO 4SGP | 1 | 2 |
| 13 | 17/01/13 | 113014/03 113014/07 | P1221069U T0321199U | MOTO 4TMAX WSBK | 1 | 2 |
| 14 | 17/01/13 | 113014/04 | P1221066U | YMH48 | 1 | 2 |
| 15 | 17/03/13 | 113014/05 | T0221130U | SP YMH48 | 1 | 2 |
| 16 | 17/03/13 | 113014/06 | T0221129G | MOTO 4TMAX | 1 | 2 |
| 17 | 10/05/13 | 113014/08 | T0321200U | MOTO 4SGP | 1 | 2 |
| 18 | 09/09/13 | 113014/09 | T0821415U | SPB HRC41 | 1 | 2 |
| 19 | 15/10/13 | 113014/10 | T0921520U | SPB HRC41 | 1 | 2 |
| 20 | 13/11/13 | 113014/11 113014/12 | T1021523U T1021523U | SZK34 SP 4THRC33 | 1 | 2 |
| 22 | 17/12/13 | 113014/16 | T1121601U | MOTO 4T YMH48 | 1 | 2 |
| 23 | 06/01/14 | 114015/01 | T1121610U | SPB HRC41 | 1 | 2 |
| 24 | 03/02/14 | 114015/02 | PCT120371U PCQ010325U | SPB MOTO 4TMAX WSBK-FIM | 1 | 2 |
| 25 | 11/02/14 | 114015/03 | PCQ010240U | SPB MOTO 4SGP | 1 | 2 |
| 26 | 20/02/14 | 114015/04 | PCQ010236U | SP YMH48 | 1 | 2 |
| 27 | 14/04/14 | 114015/05 | PCQ040134G PCQ040211 | SPB MOTO 4TMAX WSBK-FIM T50L | 1 | 2 |
| 28 | 19/05/14 | 114015/06 | PCQ040116U | SPB HRC41 | 1 | 2 |
| 29 | 23/05/14 | 114015/07 | PCQ030232G PCQ050131G | SPB MOTO 4TMAX WSBK-FIM | 1 | 2 |
| 30 | 02/06/14 | 114015/08 | PCQ050143U | SP YMH48 | 1 | 2 |
| 31 | 27/06/14 | 114015/09 | PCQ060147U | SPB MOTO 4SGP | 1 | 2 |
| 32 | 31/07/14 | 114015/13 | PCQ070079U | SPB HRC41 | 1 | 2 |
| 33 | 22/08/14 | 114015/15 | PCQ060192G PCQ080194G | SPB MOTO 4TMAX WSBK-FIM | 1 | 2 |
| 34 | 23/09/14 | 114015/22 | PCQ090232U | SZK34 | 1 | 2 |
| 35 | 16/12/14 | 114015/23 | PCQ100382U | SPB HRC41 | 1 | 2 |
| 36 | 07/01/15 | 115017/01 | PCQ120216U | SZK34 | 1 | 2 |
| 37 | 14/01/15 | 115017/02 | PCQ120252U | YMH48 | 1 | 2 |
| 38 | 18/02/15 | 115017/03 | PCZ020169U | MOTO 4SGP | 1 | 2 |
| 39 | 10/07/15 | 115017/04 | PCZ060345 PCZ060291 | MOTO 4TMAX WSBK-FIM | 1 | 2 |
| 40 | 11/08/15 | 115017/05 | PCZ070267U | YMH48 | 1 | 2 |
| 41 | 14/09/15 | 115017/06 | PCZ090168U | HRC41 | 1 | 2 |
| 42 | 30/09/15 | 115017/07 | PCZ090304U | Moto 4SGP | 1 | 2 |

Total (2/3)

| N° | Sample incoming | Dossier | Batch/Lot | Reference | Category | |
|-------|-----------------|-----------|--------------------------|---------------------------|----------|---|
| | | | | | | |
| 43 | 22/12/15 | 115017/08 | PCZ110339U | SZK34 | 1 | 2 |
| 44 | 22/12/15 | 115017/09 | PCZ090305U | SPB MOTO 4SGP | 1 | 2 |
| 45 | 22/12/15 | 115017/10 | PCZ120176G | MOTO 2 FIM | 1 | 2 |
| 46 | 12/01/16 | 116060/01 | PCZ120373U | MOTO 4SGP | 1 | 2 |
| 47 | 23/02/16 | 116060/02 | PCS020149U | YMH48 | 1 | 2 |
| 48 | 03/03/16 | 116060/03 | PCS020288U | MOTO 4SGP | 1 | 2 |
| 49 | 31/03/16 | 116060/04 | PCS030155U | SZK34 | 1 | 2 |
| 50-51 | 05/04/16 | 116060/05 | PCS030327 + PCS030328 | MOTO 4T MAX + WSBK-FIM | 1 | 2 |
| 52 | 10/05/16 | 116060/06 | PCS040330U | SPB MOTO 4SGP | 1 | 2 |
| 53 | 14/06/16 | 116060/07 | PCS050314U | MITS46 | 1 | 2 |
| 54 | 22/07/16 | 116060/08 | PCS060244U | SZK34 | 1 | 2 |
| 55 | 27/07/16 | 116060/09 | PCS070136G | SPB MOTO 4SGP | 1 | 2 |
| 56 | 31/08/16 | 116060/10 | PCS080240U | SBP HRC41 | 1 | 2 |
| 57 | 08/09/16 | 116060/11 | PCS080332 | SPB MOTO 4T MAX | 1 | 2 |
| 58 | 08/09/16 | 116060/11 | PCS080333 | WSBK-FIM | 1 | 2 |
| 59 | 14/12/16 | 116060/12 | PCS110336U | HRC41 | 1 | 2 |
| 60 | 30/12/16 | 117012/01 | PCS1202616U | SPB MOTO 4SGP | 1 | 2 |
| 61 | 30/12/16 | 117012/02 | PCS120465U | SZK 34 | 1 | 2 |
| 62 | 03/02/17 | 117012/03 | PCE010121G | ELF MOTO 2 FIM | 1 | 2 |
| 63 | 03/02/17 | 117012/03 | PCE010121G | TOTAL MOTO 2 FIM | 1 | 2 |
| 64 | 24/02/17 | 117012/04 | PCE010368U | SPB MOTO 4T MAX | 1 | 2 |
| 65 | 24/02/17 | 117012/04 | PCE020215 | WSBK-FIM | 1 | 2 |
| 66 | 09/03/17 | 117012/05 | PCE0201799G | Moto 4SGP | 1 | 2 |
| 67 | 09/03/17 | 117012/06 | PCE030052U | YMH48 | 1 | 2 |
| 68 | 04/05/17 | 117012/07 | PCE040329U | SZK46 | 1 | 2 |
| 69 | 18/05/17 | 117012/08 | PCE040292U | MOTO 4SGP | 1 | 2 |
| 70 | 26/05/17 | 117012/09 | PCE040261U | HRC41 | 1 | 2 |
| 71 | 07/06/17 | 117012/10 | PCE050235U | SZK34 | 1 | 2 |
| 72 | 22/09/17 | 117012/11 | PCE080094U | MITS46 | 1 | 2 |
| 73 | 06/10/17 | 117012/12 | PCE090297U | MOTO 4SGP | 1 | 2 |
| 74 | 15/12/17 | 117012/13 | PCE110351U | SZK34 | 1 | 2 |
| 75 | 01/02/18 | 117012/14 | PCE120271U | APL03 | 1 | 2 |
| 76 | 01/02/18 | 118013/01 | PCE120284U | HRC41 | 1 | 2 |
| 77 | 05/02/18 | 118013/02 | PCE120376U | MOTO 4SGP | 1 | 2 |
| 78 | 08/02/18 | 118013/03 | PCE120378U | YMH48 | 1 | 2 |
| 79 | 08/02/18 | 118013/04 | PCH010065G | ELF MOTO 2 FIM | 1 | 2 |
| 80 | 09/04/18 | 118013/05 | PCH030291G | ELF MOTO 2 FIM | 1 | 2 |
| 81 | 30/04/18 | 118013/07 | PCH040203U | MOTO 4SGP | 1 | 2 |
| 82 | 09/05/18 | 118013/08 | PCH050144U | APL03 | 1 | 2 |
| 83 | 09/05/18 | 118013/09 | PCH050163P | APL03 | 1 | 2 |
| 84 | 04/06/18 | 118013/10 | PCH050294U | SZK46 | 1 | 2 |
| 85 | 29/06/18 | 118013/11 | PCH050362U | Moto 4SGP | 1 | 2 |
| 86 | 08/08/18 | 118013/16 | PCH080204U | APL03 | 1 | 2 |
| 87 | 16/08/18 | 118013/17 | PCH080148U | YMH48 | 1 | 2 |
| 88 | 16/08/18 | 118013/17 | PCH080487 | APL02 | 1 | 2 |
| 89 | 12/09/18 | 118013/18 | PCH080141U | Moto 4SGP | 1 | 2 |
| 90 | 10/12/18 | 118013/19 | PCH100529U | Moto 4SGP | 1 | 2 |

Total (3/3)

| N° | Sample incoming | Dossier | Batch/Lot | Reference | Category | |
|-----|-----------------|--------------|---------------|-----------------------|----------|---|
| 91 | 09/01/19 | 119022/01 | PCH110243G | ELF MOTO 2 FIM | 1 | 2 |
| 92 | 01/02/19 | 119022/02#01 | PCF010098G | ESSENCE SPB MOTO 4SGP | 1 | 2 |
| 93 | 26/02/19 | 119022/05 | PVF020242U | Essence SP YMH48 | 1 | 2 |
| 94 | 13/03/19 | 119022/06 | PCF020373U | SZK48 | 1 | 2 |
| 95 | 17/04/19 | 119022/08 | PCF040238U | APL02 | 1 | 2 |
| 96 | 29/05/19 | 119022/09 | PCF050286U | YMH48 | 1 | 2 |
| 97 | 11/06/19 | 119022/10 | PCF050313U | MOTO 4SGP | 1 | 2 |
| 98 | 18/07/19 | 119022/11 | PCF070179U | MOTO 4SGP | 1 | 2 |
| 99 | 05/08/19 | 119022/12 | PCF070373U | MOTO 4T MAX | 1 | 2 |
| 100 | 19/08/19 | 119022/13 | PCF070414U | APL02 | 1 | 2 |
| 101 | 19/08/19 | 119022/14 | PCF080079 | WBSK-FIM | 1 | 2 |
| 102 | 10/12/19 | 119022/15 | PCF120187U-GC | YMH48 | 1 | 2 |
| 103 | 13/12/19 | 119022/16 | PCF120134G | MOTO 4SGP | 1 | 2 |
| 104 | 27/12/19 | 119022/17 | PCF110267U | MITS46 | 1 | 2 |

VP Racing Fuels

| N° | Sample incoming | Dossier | Batch/Lot | Reference | Category | |
|----|-----------------|-----------|-----------|-----------|----------|---|
| 1 | 28/05/15 | 115205/01 | 128/15 | VP Moto | | 2 |
| 2 | 31/08/18 | 118649/01 | 242/18 | VP Moto | | 2 |
| 3 | 11/04/19 | 119078/03 | #053/19 | VP MGP | 1 | 2 |



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