

## **Enclosure 1 to SI 00 13 96 (137), edition 02/2019**

These Operating Fluids Specifications show measures that are required for the approval and application in BMW Group vehicles. The operating fluid are listed, sorted by Unified Parts Groups, for all important assemblies. When using operating fluids, make sure that the specification and the manufacturer designations on the container of the particular operating fluid match those of this specification list. These Operating Fluids Specifications include notes and information that is important for you.

All operating fluids have been tested in detail prior to approval on test stands in the laboratory and during test drives to ensure that they can be used without any problems. Only these approved fluids form part of the warranty conditions.

The supplements that are distributed via Service Information sheets render the previous editions invalid. Therefore, an exchange is very important.

## Enclosure 2 to SI 00 13 96 (137), edition 02.2019

The following conditions must be met for the approval of a product:

1. The product must meet the requirements of the BMW Group.
2. The product disclosure must match with regard to specification and manufacturer name.
3. The applicant accepts the approval requirements of the BMW Group with his/her signature.
4. The necessary costs that arise for checking and approving will be billed depending on the work scope (possibly a prorated portion).
5. A flat rate must also be paid if it is merely a matter of publication in the Operating Fluids Specification catalogue.
6. Changes related to company name and address are free of charge.

It will be *added to the Operating Fluids Specification* if the following requirements are met.

1. Only the approved product may be sold under the approved designation.
2. Labelling on the containers and in the documentation must be complete and clear and correspond to the approved operating fluids.
3. All publications must be made in compliance with the regulations on operating fluids by the BMW Group.
4. The BMW Group must be notified of any change in the operating fluid or its name in a timely manner. The approval is void whenever there is a change.
5. The BMW Group can withdraw the approval at any time.
6. No claim can be derived from the approval for obtaining the operating fluid from the BMW Group or their BMW Service Partner.

**00 00 ...      Vehicle care measures for inventory vehicles (new and used vehicles) as well as vehicles to be taken off the road that are in the hands of customers**

| Action                                                                | Vehicles                                                       | Execution                                                                                                                                        |
|-----------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Remove the protective transportation film                             | New vehicles                                                   | Do not remove the protective film if the vehicle is kept outdoors;<br><br>Note the <a href="#">instructions on how to remove protective film</a> |
|                                                                       |                                                                |                                                                                                                                                  |
| Release parking brake                                                 | New vehicles                                                   | In general                                                                                                                                       |
|                                                                       | Used vehicles                                                  | In general                                                                                                                                       |
|                                                                       | Customer vehicles to be taken off the road (note to customers) | In general                                                                                                                                       |
|                                                                       |                                                                |                                                                                                                                                  |
| Engage gear or selector lever position "P" for automatic transmission | New vehicles                                                   | In general                                                                                                                                       |
|                                                                       | Used vehicles                                                  | In general                                                                                                                                       |
|                                                                       | Customer vehicles to be taken off the road (note to customers) | In general                                                                                                                                       |
|                                                                       |                                                                |                                                                                                                                                  |
| Check the covers of the interior equipment                            | New vehicles                                                   | In general                                                                                                                                       |
|                                                                       |                                                                |                                                                                                                                                  |
| Increase the tyre pressure to 3.5 bar                                 | New vehicles                                                   | In general                                                                                                                                       |
|                                                                       | Used vehicles                                                  | In general                                                                                                                                       |
|                                                                       | Customer                                                       | In general                                                                                                                                       |

|                                                |                                                                |                                                                                                                                                                                                                   |
|------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                | vehicles to be taken off the road (note to customers)          |                                                                                                                                                                                                                   |
|                                                |                                                                |                                                                                                                                                                                                                   |
| Charge battery                                 | New vehicles                                                   | See <a href="#">battery charging calendar</a>                                                                                                                                                                     |
|                                                | Used vehicles                                                  | See <a href="#">battery charging calendar</a>                                                                                                                                                                     |
|                                                | Customer vehicles to be taken off the road (note to customers) | Every 6 weeks;<br><br>Every 12 weeks for vehicle batteries that have been disconnected from the vehicle electrical system;<br><br>Notify customers of vehicle-specific procedures for electric or hybrid vehicles |
| Change the brake fluid and reset CBS           | Used vehicles                                                  | Change before vehicle handover to customer if service is due shortly (see CBS display -> Brake fluid service)                                                                                                     |
|                                                |                                                                |                                                                                                                                                                                                                   |
| Check convertible top for potential damage     | New vehicles                                                   | Generally before handover to the customer                                                                                                                                                                         |
|                                                | Used vehicles                                                  | Generally before handover to the customer                                                                                                                                                                         |
|                                                |                                                                |                                                                                                                                                                                                                   |
| If possible, keep convertibles in roofed areas | New vehicles                                                   | In general                                                                                                                                                                                                        |
|                                                | Used vehicles                                                  | In general                                                                                                                                                                                                        |
|                                                | Customer vehicles to be taken off the road                     | In general                                                                                                                                                                                                        |

|                                                                  |                                                                               |                                                                         |
|------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------|
|                                                                  | (note to customers)                                                           |                                                                         |
|                                                                  |                                                                               |                                                                         |
| Check for damage to paint, the exterior or interior              | New vehicles                                                                  | Generally before handover to the customer                               |
|                                                                  | Used vehicles                                                                 | Generally before handover to the customer                               |
|                                                                  |                                                                               |                                                                         |
| Change engine oil and oil filter at engine operating temperature | New vehicles                                                                  | No change                                                               |
|                                                                  | Used vehicles (not applicable to vehicles with Premium Selection certificate) | Prior to handover to customers as from a 12 month immobilisation period |
|                                                                  | Customer vehicles to be taken off the road (note to customers)                | Prior to handover to customers as from a 12 month immobilisation period |
|                                                                  |                                                                               |                                                                         |
| Check coolant composition                                        | Used vehicles                                                                 | In general                                                              |
|                                                                  | Customer vehicles to be taken off the road (note to customers)                | In general                                                              |
|                                                                  |                                                                               |                                                                         |
| Dry the parking brake and footbrake by applying the brake        | New vehicles                                                                  | In general                                                              |
|                                                                  | Used vehicles                                                                 | In general                                                              |
|                                                                  | Customer vehicles to be taken off the road (note to customers)                | In general                                                              |
|                                                                  |                                                                               |                                                                         |
|                                                                  |                                                                               |                                                                         |

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------|
| Apply surface protection: vehicle surface wash including interior vehicle cleaning and subsequent paint and chrome-part care. Clean the rubber seals of the flaps and doors and apply talc or rubber care product. Use materials approved by BMW for cleaning and vehicle preservation to recondition engines, engine compartments, vehicle underbodies, axles and assemblies. | Used vehicles                                                  | In general                                            |
|                                                                                                                                                                                                                                                                                                                                                                                | Customer vehicles to be taken off the road (note to customers) | In general                                            |
|                                                                                                                                                                                                                                                                                                                                                                                |                                                                |                                                       |
| Switch on the air conditioning for approximately 10 min each month                                                                                                                                                                                                                                                                                                             | New vehicles                                                   | Required to ensure circulation of the refrigerant oil |
|                                                                                                                                                                                                                                                                                                                                                                                | Used vehicles                                                  | Required to ensure circulation of the refrigerant oil |
|                                                                                                                                                                                                                                                                                                                                                                                | Customer vehicles to be taken off the road (note to customers) | Required to ensure circulation of the refrigerant oil |

## Enclosure 4 to SI 00 13 96 (137), edition 02.2019

### **Litres Gallons (US) Pints (US)**

|      |       |        |
|------|-------|--------|
| 0,5  | 0.132 | 1.056  |
| 1.0  | 0.264 | 2.113  |
| 2,0  | 0.528 | 4.226  |
| 3,0  | 0.792 | 6.339  |
| 4,0  | 1.056 | 8.452  |
| 5.0  | 1.320 | 10.565 |
| 6,0  | 1.584 | 12.678 |
| 7,0  | 1.848 | 14.791 |
| 8,0  | 2.112 | 16.904 |
| 9.0  | 2.376 | 19.017 |
| 10,0 | 2.640 | 21.130 |
| 11.0 | 2.904 | 23.243 |
| 12,0 | 3.168 | 25.356 |
| 13.0 | 3.432 | 27.469 |
| 14,0 | 3.696 | 29.582 |
| 15,0 | 3.960 | 31.695 |

### **Litres Gallons (imp) Pints (ip)**

|      |       |        |
|------|-------|--------|
| 0,5  | 0.110 | 0.880  |
| 1.0  | 0.220 | 1.760  |
| 2,0  | 0.440 | 3,520  |
| 3,0  | 0.660 | 5.279  |
| 4,0  | 0.880 | 7.039  |
| 5.0  | 1.100 | 8.799  |
| 6,0  | 1.320 | 10.559 |
| 7,0  | 1.540 | 12.319 |
| 8,0  | 1.760 | 14.078 |
| 9.0  | 1.980 | 15.838 |
| 10,0 | 2,200 | 17.598 |
| 11.0 | 2.420 | 19.358 |
| 12,0 | 2.640 | 21.118 |
| 13.0 | 2.860 | 22.877 |
| 14,0 | 3.080 | 24.637 |

15,0    3.300            26.397

#### Conversion factors

**Litre to gallons (imp) x 0.2199    Litre to gallons (US) x 0.264**

Gallons (imp) to litre x 4.546        Gallons (US) to litre x 3.785

Litre to pints (imp) x 1.759        Litre to pints (US) x 2.113

Pints (imp) to litre x 0.568        Pints (US) to litre x 0.473