

# TOTACHI® FLUSH OUT

## PRODUCT DESCRIPTION

TOTACHI® FLUSH OUT is the flush oil, engineered for purge of internal combustion engine lubrication systems without the need for teardown and oil change. It is produced of highly refined base stocks, using hydrocracking technology. Specially selected additive package contains an effective combination of detergent, dispersant and antiwear additives. During a short period (10-20 minutes of warm engine work) the oil gradually washes away accumulated deposits in oil passages and interior cavities of the engine. The product provides improved removal of semisolid decomposition products from engine oil, solid particles from unburned fuel (soot) and wear particles from loaded engine components.

The product is specially recommended for repair works, such as engine head gasket change, after engine overheating, in case of long maximum duty work and failure to observe proper drain intervals.

## APPLICATION

- The product is recommended for gasoline and diesel engines of passenger cars and off-road vehicles during oil change after operations with extended service interval. The product is also

recommended in cases when high level of contamination in lubrication system and sump is possible.

- It is preferable to use the product when shifting to a higher service category of oil (ACEA or API) in order to remove deposits in hot areas of the engine.
- The product is specially recommended for repair works, such as engine head gasket change, after engine overheating, in case of long maximum duty work and failure to observe proper drain intervals.

## CUSTOMER BENEFITS

- Excellent detergent additive removes sludge and soot layer by layer. The product provides deposit dispersancy and prevents plugging of oil passages and filters.
- The product protects loaded components from wear during flush, thus maintaining maximum engine durability.
- TOTACHI® FLUSH OUT oil is fully compatible with different types of engine oils, recommended for modern four-stroke engines.

## TYPICAL TEST DATA

| CHARACTERISTICS         | UNITS | VALUES | METHODS    |
|-------------------------|-------|--------|------------|
| Kinematic viscosity at: |       |        |            |
| 40°C                    | cSt   | 30,90  | ASTM 445   |
| 100°C                   | cSt   | 5,391  | ASTM 445   |
| Viscosity index         | -     | 108    | ASTM D2270 |
| Density at 30°C         | kg/l  | 0.849  | ASTM D4052 |
| SG density at 60 °C     | kg/l  | 0.8589 | ASTM D1298 |
| Flash point             | °C    | 240    | ASTM D92   |
| Pour point              | °C    | -42    | ASTM D97   |
| Color                   | -     | L 0.5  | ASTM D1500 |

### **STORAGE AND HANDLING GUIDELINES**

- Avoid exposing products to direct sunlight and extreme temperatures.
- Cans, packed in cardboard boxes, must be stored indoors vertically. Avoid exposing products to moisture.
- It is highly recommended to store drums indoors on pallets and racks.
- If stored outdoors drums should be placed sidewise to avoid accumulation of moisture.
- Store indoors if ambient temperature is below 0°C.

### **HEALTH, SAFETY AND ENVIRONMENT PROTECTION**

Information on health, safety and environment protection is described in the product Safety Data Sheet (SDS). The SDS file contains details on potential hazards, precautions and first aid measures, as well as information on environmental impact and disposal of used products.

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