



made for winners

MOTO 4 HP ECO 10W40



Next generation semi-synthetic lubricant.

USE

- **Motorcycle Application**
- **Recommendation**
- **Suggestion for use**

MOTO 4 HP ECO is recommended for all 4-stroke Motorcycles.

This multipurpose lubricant meets the severe requirements of urban traffic and long-distance runs.

MOTO 4 HP ECO is totally compatible with catalytic converters. The oil change intervals recommended by the manufacturers and the minimum viscosity requirements must be complied with. This lubricant is compatible with unleaded fuels.

PERFORMANCES

Synthetic-fortified

MOTO 4 HP ECO is a lubricant highly fortified with synthetic base oils, it provides hydrodynamic lubrication and superior engine cleanliness.

**Viscosity 10W-40
Superior-friction-properties**

MOTO 4 HP ECO has a specific reactivity to temperature variations. Its maximum fluidity at low temperatures improves injection and gives a fast oil pressure rise.



JASO MA

This lubricant meets the JASO MA specification (*Japanese Automobile Standards Association*) for wet clutch 4-stroke Motorcycles. The high friction factor prevents clutch slippage and disk wear (Anti-clutch slippage).

API SG

MOTO 4 HP ECO meets the API SG level (*American Petroleum Institute*), this level is required by international motorcycle manufacturers.

TOTAL LUBRIFIANTS
16, rue de la République
92800 PUTEAUX
1/1

MOTO 4 HP ECO
May 2003
MPC/05/03



This lubricant used according to our recommendations and for its designed application does not represent any particular risk. A safety data sheet in conformity with the legislation now current in the EC is available from our local sales advisor.



CUSTOMER ADVANTAGES

- **Controlled viscosity according to temperature** MOTO 4 HP ECO's additives thicken the oil at high temperature and give low temperature fluidity. The correct oil film is therefore obtained by controlling the viscosity according to the temperature by its Viscosity Index Improvers. MOTO 4 HP ECO's 10W-40 viscosity incorporates superior lubrication performance giving easy cold starting, a fast oil pressure rise and low friction between moving engine components.
- **Piston ring sealing** MOTO 4 HP ECO reduces piston ring groove fouling for optimum sealing during combustion and to maintain the full power of your engine.
- **Power gain**
- **Anti-oxidant** MOTO 4 HP ECO has anti-oxidant additives which neutralize and slow down the oxidation process. This prolongs the lubricant's lifetime and keeps the oil fluid and efficient, it remains homogenous and its acidity changes little.
- **Anti-clutch slippage** Due to their molecular structure, the base oils form a homogenous film between the clutch disks. The friction factor is adapted to the mechanical requirements preventing clutch slippage and premature disk wear.
- **Disk protection**

PROPERTIES

PHYSICAL-CHEMICAL PROPERTIES MOTO 4 HP ECO 10W40

Density at 15°C (ASTM 1298)	0.8704
OC flash point (ASTM D 92)	224 °C
Kinematic viscosity at 40°C (ASTM D 445)	90.5 mm ² /s
Kinematic viscosity at 100°C (ASTM D 445)	13.7 mm ² /s
Viscosity index (ASTM D 2270)	154
Sulfated ash content (ASTM D 878)	0.85 by weight
Pour point (ASTM D97)	-30 °C

AFAQ ISO 9001 CERTIFICATION number 1993/900c

The specifications in this table are averages given for information only.