

## PRODUCT DESCRIPTION

**LEAD ATF WS** is a special synthetic hydraulic liquid for Toyota transmissions with the control of speeds slide. Thoroughly selected additives and synthetic components provide the best friction properties when gear changing, perfect low-temperature properties, high anti-oxygenic and chemical stability during the whole operation cycle.

## APPLICATION

For most of the 5- and 6-stepped automatic transmissions used in Toyota cars since 2005.

## PROPERTIES

- Smooth transmission and perfect synchronization
- Longer retention of frictional characteristics under continual severe operating conditions
- Protection against deposit formation and evaporation losses at high operating temperatures
- Excellent low temperature operation, ensuring prompt circulation of fluid
- Good protection, against wear, resistance to rust, corrosion and foam
- Compatible with seal materials used in transmission units
- Lower maintenance costs, and improved operating profit

## PERFORMANCE LEVELS

Meets and exceeds:

AISIN WARNER; BMW 4 and 5 speed European; CHRYSLER ATF +3 / 4; MAN 339; Type Z-1; MB 4 and speed European; TOYOTA T-III / T-IV / WS Lifetime; VOITH ATs 55.6335; VW 4 and 5 speed European

## TYPICAL PROPERTIES

PARAMETERS	TEST METHOD	UNIT	LEAD ATTO ATF WS
Density @ 15°C	ASTM D1298	kg/l	0.846
Viscosity @ 100°C	ASTM D445	cSt	7,05
Viscosity @ 40°C	ASTM D445	cSt	34,5
Viscosity Index (min)	ASTM D2270	-	172
Brookfield Viscosity @-40 °C	ASTM D2983	cP	13,100
Pour Point	ASTM D97	°C	-45
Flash Point	ASTM D92	°C	216

**The values shown above are typical values at the date of publication. Lead Petroleum reserves the right to change these typical values without prior notice**

**HEALTH & SAFETY, ENVIRONMENT:**

Prolonged and repeated contact with oil may cause skin disorders. Avoid contact. Wash immediately with soap and water. Do not discharge used oil in to drains or the environment. Dispose to an authorized used oil collection point. For further Information on Safety Guidelines please refer to MSDS available on our website [www.leadpetroleum.com](http://www.leadpetroleum.com).