



AeroShell Turbine Oil 750

DESIGNED TO MEET CHALLENGES

Main Applications

- AeroShell Turbine Oil 750 was developed to meet the requirements of DERD 2487 (now DEF STAN 91-98) and to provide a high standard of lubrication in British civil gas turbines, particularly turbo-prop engines where a good load carrying oil was required for the propeller reduction gearbox.
- AeroShell Turbine Oil 750 is also approved by the Russian authorities as an analogue to MN-7.5u and for those Russian turbo-prop applications which require the use of mixtures of mineral turbine oil and aircraft piston engine oil.
- AeroShell Turbine Oil 750 contains a synthetic ester oil and should not be used in contact with incompatible seal materials and it also affects some paints and plastics.

Specifications, Approvals & Recommendations

- Approved DEF STAN 91- 98 (replaces DERD 2487) (UK)
 - Equivalent AIR 3517A (French)
 - Analogue to TU 38.1011722- 85 Grade MN-7.5u (Russian)
 - NATO Code O-149 (equivalent O -159)
 - Joint Service Designation OX-38
 - AeroShell Turbine Oil 750 is approved for use in all models of the following engines:**
 - Honeywell : Auxiliary Power Units (some models)
 - Pratt & Whitney Canada : PT6 (some models)
 - BMW-Rolls-Royce : Dart, Tyne, Avon (some early models only), Gnome, Pegasus, Palouste, Nimbus, Proteus, Orpheus, Olympus 200 and 300
 - Sikorsky : S-61N transmissions
 - Soloviev : D30 engine
 - Turbomeca : Astazou, Bastan, Turmo, Artouste, Arriel, Malika
- For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk.

Typical Physical Characteristics

Properties	DEF STAN 91-98	Typical
Oil type	Synthetic ester	Synthetic ester
Density @15°C kg/l	Report	0.947
Kinematic viscosity @100°C mm ² /s	7.35 min	7.47
Kinematic viscosity @40°C mm ² /s	36.0 max	32
Kinematic viscosity @-40°C mm ² /s	13000 max	10140
Kinematic viscosity after storage @-54° for 12 hrs @-40°C mm ² /s	-	10800
Flashpoint Cleveland Open Cup °C	216 min	242
Pourpoint °C	-54 max	Below -54
Total Acidity mgKOH/g	Report	0.03
Foaming characteristics	Must pass	Passes
Sediment mg/l	10 max	Less than 10
Total ash of sediment mg/l	1 max	Less than 1
Trace element content	Must pass	Passes
Elastomer swell tests	Must pass	Passes
Corrosivity, metal weight change	Must pass	Passes
Gear Machine Rating	Must pass	Passes
Shear Stability - viscosity change @40°C %	2 max	Less than 2

Properties		DEF STAN 91-98	Typical
Shear Stability - condition of oil		Must pass	Passes
Compatibility and miscibility	@210°C	Must pass	Passes
Homogeneity	@210°C	Must pass	Passes
Homogeneity	@-40°C	Must pass	Passes

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.

Health, Safety & Environment

- **Health and Safety**

Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet, which can be obtained from <http://www.epc.shell.com/>

- **Protect the Environment**

Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

Additional Information

- **Advice**

Advice on applications not covered here may be obtained from your Shell representative.