



Product Data

Castrol® Aero 35

Landing Gear Shock Strut Fluid

Distributed by QC Lubricants

CAGE CODE 9Y364

7360 Milnor St • Philadelphia, PA 19136
(215) 333-4187 Direct Line

Toll Free **With Extension:** (800) 887-2436

For Technical Assistance **Dial Extension 203** for Stan Jakubowski

For Sales Assistance **Dial Extension 211** for Lu Ann Quinn

QCLubricants.com for [Castrol Aero 35 Purchase and Information](#)

Description

Castrol® Aero 35 is a high quality, MIL-PRF-6083F based, ISO Grade 15 mineral hydraulic fluid which contains anti-wear agents and corrosion inhibitors. Castrol® Aero 35 also contains a shear stable viscosity index improver, anti-oxidant, and an approved EP additive system which reduces martensitic streaking of landing gear outer cylinders and galling of shock strut upper bearings.

This formulation is specially designed to reduce the "stickslip" properties of MIL-PRF-6083F fluids. Castrol® Aero 35 is available in two versions: red dyed (Douglas Aircraft) or straw colored (yellow) undyed (Boeing Spec BMS 3-32, Type I).

Uses

Castrol® Aero 35 is specially designed for use in landing gear shock struts.

Additionally, Castrol® Aero 35 is compatible with approved MIL-PRF-5606 and MIL-PRF-6083 hydraulic fluids. It is not completely compatible with synthetic gas turbine lubricants or with phosphate-ester hydraulic fluids. It is compatible with other petroleum-based and synthesized hydrocarbon lubricants, but contamination should be avoided in order to maintain the unique properties of Castrol® Aero 35. This product is also compatible with most seals, hoses, and paints, normally used in shock struts and dispensing equipment connected with this application. While certain grades of these materials are fully compatible with Castrol® Aero 35, it is advisable to confirm acceptability of use with either the material manufacturer or the appropriate technical support contact.

Approval Status

Castrol® Aero 35 Red is formulated in accordance with Douglas Aircraft Specification DPS 3.334 and referenced as Douglas stock number DPM 6177. Castrol® Aero 35 Yellow is formulated as an alternative to Boeing Service Letters 707-SL-12-2; 727-SL-12-2; 737-SL-12-2; 757-SL-27-15-B. These letters instruct the addition of an EP additive to either the standard or corrosion inhibited mineral based hydraulic fluid for use in their landing gear shock

struts. Castrol® Aero 35 Yellow is fully approved to Boeing BMS 3-32 (Type I).

Shelf Life

Castrol Aero 35 has a maximum recommended shelf life of 6 years from date of manufacture. This shelf life assumes that the product is stored in its original unopened packaging in ambient temperature conditions.

CASTROL® AERO 35 TYPICAL PROPERTIES

TEST (ASTM)	DESCRIPTION	RESULT
D 287	API Gravity, @ 15.6/15.6°C (60/60°F)	30.86
Table 8	Pounds per Gallon @ 16°C (60°F)	7.36
D 445	Kinematic Viscosity @ 100°F, cSt	15.35
D 664	Total Acid Number, mg KOH/g	2.69
	Colour	2
	Zinc Content, ppm	1,547

Health, safety and environmental information are provided for this product in the Materials Safety Data Sheet. This gives details of potential hazards, precautions and First Aid measures, together with environmental effects and disposal of used products. User accepts all risks and liabilities if the product is used other than in the manner, with the precautions, or for the purpose(s) specified. Before using the product other than directed, please contact Air BP for consultation.

Revised: June 15, 2006

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