

- CHAPTER 11 -

LUBRICATION

(Plate No. 11.1)

Note: See alternative specifications under Item 11.3.

Periods: 30 hours or 7 days/120 hours/at overhaul.

11.1	<u>Parts Requiring Periodic Lubrication</u>	<u>Period</u>	<u>Lubricant</u>
11.1.1.	Small moving parts that may tend to stick or squeak, for which there are no specific requirements, may be lubricated sparingly with oil or grease, i.e. - bellcranks - pivot points - fork ends in flying controls - rudder pedal assemblies - hand brake lever - engine cowling fasteners and hinges - canopy latches.		Oil to specification AN-O-6A, 3-GP-335-1947 or 3-GP-13-1947 (The latter for maximum corrosion resistance is preferred) However, Engine oil to Specification DED-2472 B/O may be used if necessary. Grease: DTD-577
11.1.2	Elevator trim tab hinge	30H or 7D	AN-O-6A
11.1.3	Tailwheel yoke - 2 grease nipples	30H or 7D	DTD-577
11.1.4	Main undercarriage scissors - pin joint - 2 grease nipples	30H or 7D 30H or 7D	AN-O-6A DTD-577
11.1.5	Main undercarriage cylinder - grease nipple	30H or 7D	DTD-577
11.1.6	Aileron control chain and sprockets	30H or 7D	DTD-577
11.1.7	Flexible drives - engine tachometers	30H or 7D	DTD-577
11.1.8	Battery contacts	30H or 7D	Petroleum Jelly
11.1.9	Tailwheel swivel - grease nipple	120H	DTD-577
11.1.10	Tailwheel hub - grease nipple	120H	DTD-577
11.1.11	Mainwheel hub	120H	DTD-588
11.1.12	Main and tail ski axles	120H	DTD-577

11.2 Parts Requiring Lubrication at Time of Overhaul

Lubricant

11.2.1	Control cable pulleys	DTD-577
11.2.2	Ball bearings - Repack	DTD-577
11.2.3	Bowden cable for trim tab	Bowden Graphite Wax or Cas- trolease Brake Cable Lu- bricant or Petroleum Jelly
11.2.4	Oilite bearings. Examine bearings and, if neces- sary, clean and relubricate to directions in Oilite Catalogue B-44.	

NOTE

1. Do not lubricate control cables or fairleads.
2. Do not lubricate the cockpit canopy tracks. The lubricant would attract foreign matter, with the resultant tendency to cause malfunctioning and increase wear. A light application of paraffin wax will be sufficient.

11.3 Miscellaneous

11.3.1	Anti-seize grease for dressing spark-plug threads	DTD-392
11.3.2	Engine oil - when inlet temperature over 70°C (158°F)	DED-2472 C/O
	- when inlet temperature between 70°C and -10°C	DED-2472 B/O
	- when average daytime temperature below -10°C (14°F)	DED-2472 A/O
11.3.3	See engine and accessory manufacturers' handbooks for lubrication of engine, starter, generator, magneto, landing lamp, gyro instruments, etc.	
11.3.4	Hydraulic fluid for brakes (Chapter 9)	DTD-585

<u>SPECIFICATION</u>	<u>Esso Aviation</u>	<u>Aero Shell</u>	<u>Texaco Aviation</u>	<u>B.A. Aviation</u>	<u>White Rose</u>
DED-2472 C/O AN-O-8 Grade 1120 3-GP-120-1947	Oil 120	Oil 120	Oil 120	Engine Oil 120	Avail 120
DED-2472 B/O AN-C-8 Grade 1100 3-GP-100-1947	Oil 100	Oil 100	Oil 100	Engine Oil 100	Avail 100
DED-2472 A/O AN-O-8 Grade 1080 3-GP-80-1947	Oil 80	Oil 80	Oil 80	Engine Oil 80	Avail 80
DTD-588 AN-G-5A ---	High Temp. Grease	Grease 5	High Temp. Grease	B-Aero Strona Ht.L	---
DTD-577 AN-G-3A 3-GP-681-1947	Low Temp. Grease	Grease 4	Low Temp. Grease 67	B-Aero Amber	---
DTD-392 AN-C-147	Anti Seize Compound Compound-1	8	---	---	---
DTD-585 AN-VV-O-366B 3-GP-26-1947	Univis J 43	Fluid 4	Hydraulic Oil AA	B-Aero Hydroflo	---

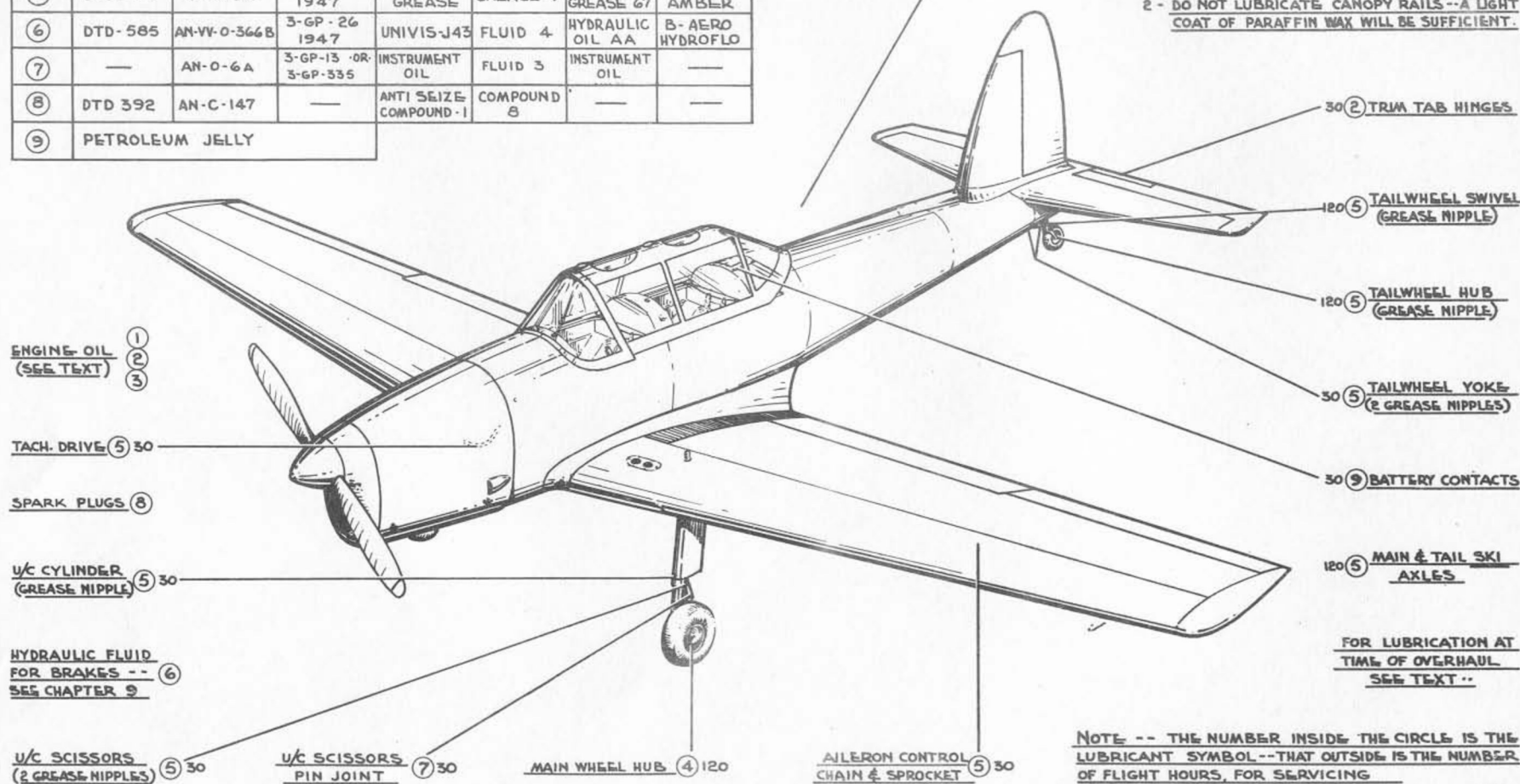
AN-G-4 Grade AA Special	Utility Grease	Grease 3A	---	---	---
AN-O-6A 3-GP-13-1947 or 3-GP-335-1947	Instru- ment Oil	Fluid 3	Instru- ment Oil	---	---

SYMBOL	BRITISH	U.S. ARMY-NAVY	CANADIAN	ESSO AVIATION	AERO SHELL	TEXACO AVIATION	B.A. AVIATION
①	DED-2472-C/O	AN-O-8 GRADE 1120	3-GP-120 1947	OIL 120	OIL 120	OIL 120	ENGINE OIL 120
②	DED-2472-B/O	AN-O-8 GRADE 1100	3-GP-100 1947	OIL 100	OIL 100	OIL 100	ENGINE OIL 100
③	DED-2472-A/O	AN-O-8 GRADE 1080	3-GP-80 1947	OIL 80	OIL 80	OIL 80	ENGINE OIL 80
④	DTD-588	AN-G-5A	—	HIGH TEMP GREASE	GREASE 5	HIGH TEMP. GREASE	B-AERO STRONA-WT 1
⑤	DTD-577	AN-G-3A	3-GP-681 1947	LOW TEMP GREASE	GREASE 4	LOW TEMP GREASE 67	B-AERO AMBER
⑥	DTD-585	AN-VV-O-366B	3-GP-26 1947	UNIVIS-J43	FLUID 4	HYDRAULIC OIL AA	B-AERO HYDROFLO
⑦	—	AN-O-6A	3-GP-13 OR 3-GP-335	INSTRUMENT OIL	FLUID 3	INSTRUMENT OIL	—
⑧	DTD 392	AN-C-147	—	ANTI SEIZE COMPOUND	COMPOUND 8	—	—
⑨	PETROLEUM JELLY						

⑦ OR ⑤ AS REQUIRED
FOR SMALL MOVING PARTS HAVING NO SPECIFIC REQUIREMENTS --- LUBRICATE SPARINGLY
I.E. -- BELL CRANKS - PIVOT POINTS - FORK ENDS IN FLYING CONTROLS - RUDDER PEDAL ASSEMBLIES - HAND BRAKE LEVERS - ENGINE COWL FASTENERS AND HINGES - CANOPY LATCHES - ETC.

NOTE -

- 1 - DO NOT LUBRICATE CABLES OR FAIRLEADS
- 2 - DO NOT LUBRICATE CANOPY RAILS -- A LIGHT COAT OF PARAFFIN WAX WILL BE SUFFICIENT.



J.W.S.