

ZONES: 100
 A/C NUMBER:
 REV. DATE: 03/25/08
 FREQUENCY: PCI

W/C NUMBER: 710M2901 DATE:

MFR P/N	DESCRIPTION	QTY
SAMPLEBOTTLE	Skydrol Sampling Bottle	3
Alcohol	Isopropyl Alcohol	A/R

REFERENCES

AMM 12-13-02, 29-00-00

MECH INSP

MRB ITEM 29-999B

HYDRAULIC FLUID SAMPLING

1. Prepare for Hydraulic Fluid Sampling.

WARNING: Observe all relevant safety precautions in the referenced AMM procedures when performing this task. Failure to do so can result in damage to equipment or injury/death to personnel.

_____ XXXXX A. Pressurize Hydraulic Sytems 1, 2 and 3.
 (Ref. AMM 29-00-00/201).

_____ XXXXX B. Cycle all of the flight controls, 6 to 8 times, to allow the fluid to circulate throughout each system.

NOTE: All samples must be taken within 60 minutes of the completion of this step.

_____ XXXXX C. Remove pressure from Hydraulic Systems 1,2 and 3.
 (Ref. AMM 29-00-00/201).

2. GENERAL NOTES: Cleanliness and consistency are critical during these sampling procedures. A small amount of contamination in the fluid sample will result in artificially high particle counts which will not accurately reflect the condition of the system's fluid.

Fluid samples must be taken in clean fluid sampling bottles supplied by the testing laboratory. If the bottles are not clean, or have been previously opened, discard them and use new bottles.

Samples must be taken from an uninterrupted, steady stream of hydraulic fluid. Interrupting the fluid flow with the sample bottle in the

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fluid stream can lead to contamination of the sample.

Bottle cap should contain conical polyethylene closure or piece of mylar or polyethylene film under cap. Deterioration of bottle caps will cause false indication of fluid contamination.

Familiarize yourself with the following steps before proceeding.

- 3. Clean sampling port fittings with Isopropyl Alcohol, wipe with lint free wipes and flush fittings again with Alcohol.

_____ XXXXX A. Hydraulic System 1

_____ XXXXX B. Hydraulic System 2

_____ XXXXX C. Hydraulic System 3

CAUTION: Use appropriate personal safety equipment when working with hydraulic fluid. See MSDS for details.

- 4. Obtain Hydraulic Fluid Sample from Hydraulic System 1.

A. Draining of Fluid Samples.

(1) Obtain fluid samples as follows.

_____ XXXXX (a) Depressurize system/reservoir. (Ref. 29-00-00, Page 201)

_____ XXXXX (b) Place waste pan under sampling port, reservoir drain valve.

_____ XXXXX (c) Open valve such that steady but not forceful stream is running.

_____ XXXXX (d) Allow approximately 1 pint (500cc) to drain. This should purge immediate area of any settled particles.

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- _____ XXXXXX (e) Insert sample bottle under stream and fill, leaving small air space at top. Withdraw bottle and cap immediately.
- _____ XXXXXX (f) Close drain valve.
- _____ XXXXXX (g) Complete the label that accompanied the sample bottle and affix it to the bottle.
- _____ XXXXXX (h) Seal the sample bottle in the ziplock bag and place it in the shipping box that accompanied the sample bottle.

CAUTION: Use appropriate personal safety equipment when working with hydraulic fluid. See MSDS for details.

5. Obtain Hydraulic Fluid Sample from Hydraulic System 2.

A. Draining of Fluid Samples.

(1) Obtain fluid samples as follows.

- _____ XXXXXX (a) Depressurize system/reservoir. (Ref. 29-00-00, Page 201)
- _____ XXXXXX (b) Place waste pan under sampling port, reservoir drain valve.
- _____ XXXXXX (c) Open valve such that steady but not forceful stream is running.
- _____ XXXXXX (d) Allow approximately 1 pint (500cc) to drain. This should purge immediate area of any settled particles.
- _____ XXXXXX (e) Insert sample bottle under stream and fill, leaving small air space at top. Withdraw bottle and cap immediately.
- _____ XXXXXX (f) Close drain valve.
- _____ XXXXXX (g) Complete the label that accompanied the sample bottle and affix it to the bottle.
- _____ XXXXXX (h) Seal the sample bottle in the ziplock bag and place it in the shipping box that accompanied the sample

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bottle.

CAUTION: Use appropriate personal safety equipment when working with hydraulic fluid. See MSDS for details.

6. Obtain Hydraulic Fluid Sample from Hydraulic System 3.

A. Draining of Fluid Samples.

(1) Obtain fluid samples as follows.

- _____ XXXXX (a) Depressurize system/reservoir. (Ref. 29-00-00, Page 201)
- _____ XXXXX (b) Place waste pan under sampling port, reservoir drain valve.
- _____ XXXXX (c) Open valve such that steady but not forceful stream is running.
- _____ XXXXX (d) Allow approximately 1 pint (500cc) to drain. This should purge immediate area of any settled particles.
- _____ XXXXX (e) Insert sample bottle under stream and fill, leaving small air space at top. Withdraw bottle and cap immediately.
- _____ XXXXX (f) Close drain valve.
- _____ XXXXX (g) Complete the label that accompanied the sample bottle and affix it to the bottle.
- _____ XXXXX (h) Seal the sample bottle in the ziplock bag and place it in the shipping box that accompanied the sample bottle.

7. Return Aircraft to Service

- _____ XXXXX A. Perform the Reservoir Fluid Quantity Check per AMM 12-13-02.
- _____ XXXXX B. Forward the samples to the laboratory at the address printed on the fluid sampling bottle's shipping boxes.

HYDRAULIC FLUID SAMPLING

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***** END OF WORKCARD *****