

Subject
PREDATAIR Hydraulic Case Drain Test

System or Parts affected

- PREDATAIR40 (H400001)
- PREDATAIR60 (H600002)
- PREDATAIR HHP60 (H600004)

Overview

By measuring the amount of hydraulic oil that bypasses the Predatair hydraulic motor through the case drain hose, the condition of the hydraulic motor can be determined.

Procedure

Warm the hydraulic system

The vehicle hydraulic system must be up to the Predatair's required operating temperature (41°F/ 5°C) and ready to run before performing this test.

Locate/Identify case drain hose

- 1) The Case drain hose is a ¼" ID hose located between a 90° spigot on the end of the hydraulic motor and a straight spigot above the "RETURN OUT" port on the hydraulic manifold. (Figure 1)

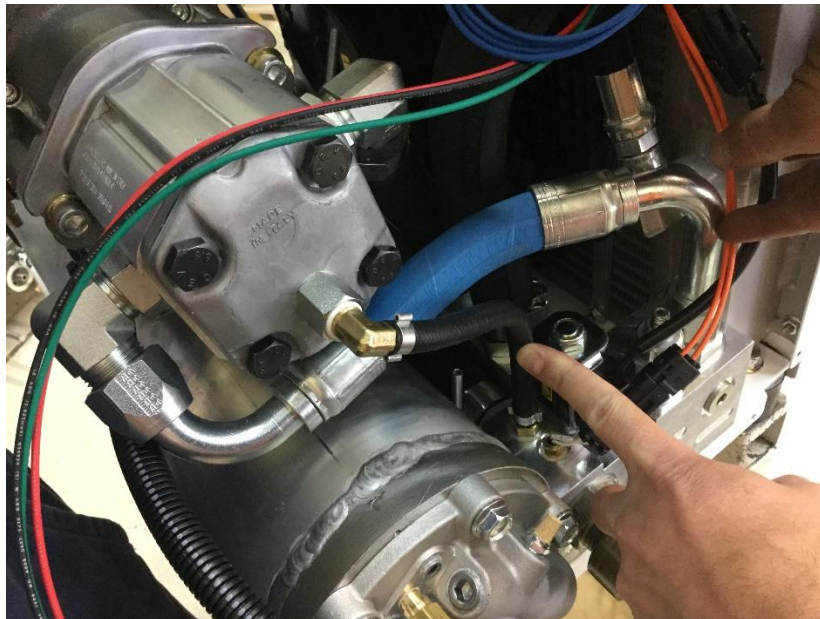


Figure 1

Prepare hoses

- 2) Loosen the upper case drain hose clamp and disconnect hose from 90° spigot on hydraulic motor. (Figure 2)



Hose clamp may require replacement for proper reassembly after test is complete.

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Figure 2

- 3) Plug the end of the disconnected hose (1). Place a temporary ¼” hose (2) securely on the 90° spigot (approx. 1ft of hose will do). (Figure 3)

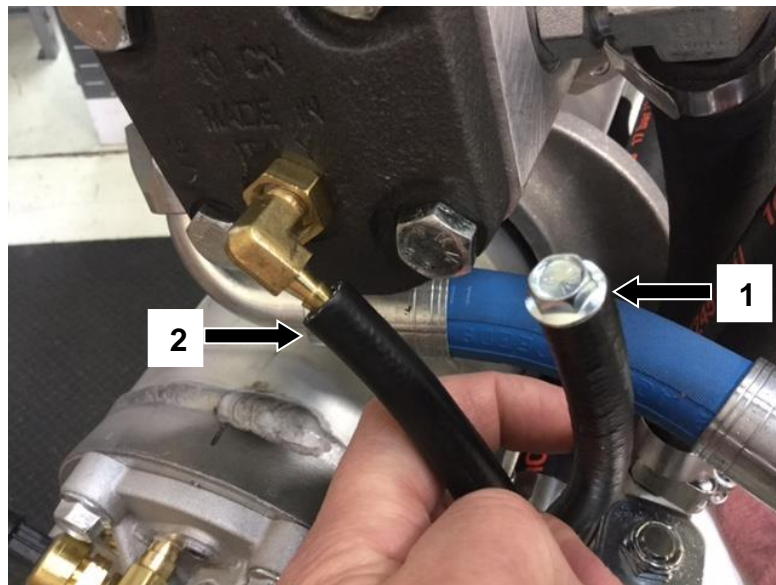


Figure 3

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- 4) Direct the loose end of the temporary hose into a measuring cup. (Figure 4)

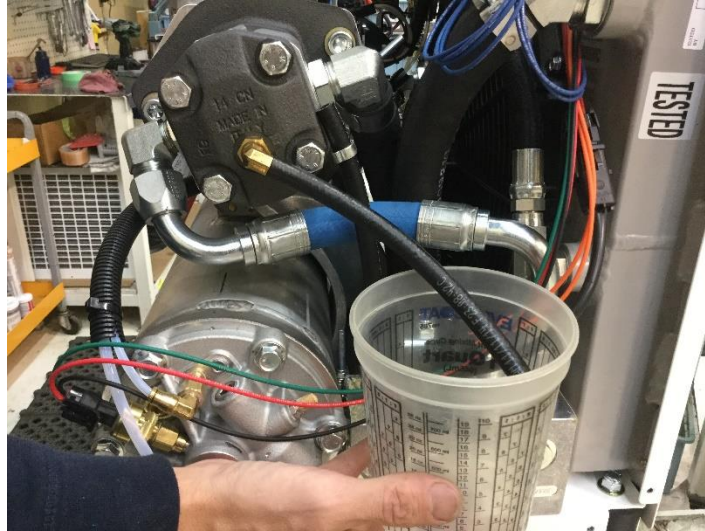


Figure 4

- 5) Have a timer/stopwatch ready. Start and run the Predatair for one minute and monitor the amount of oil that flows through the temporary hose from the hydraulic motor into the cup. (Figure 5)

NOTE An amount exceeding 4 fluid ounces in one minute indicates excessive wear in the hydraulic motor and the need to replace the hydraulic motor.

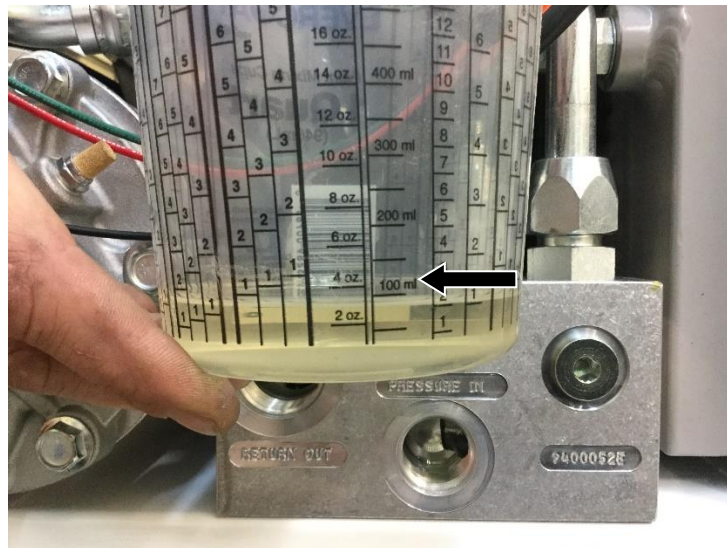


Figure 5

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