Checklist for the Bendix® Air System Inspection Cup (BASIC) Test

Note: Follow all standard safety precautions. Only for vehicles using an air dryer.



(lbs.)

Vehicle #:

_Typical Load:____

Service Writer - Please fill out	Number of Day	s Since Air Tar	ıks Were I	Last Drained:	_ Date:	Ve
the information in this section.	Engine SN			Vehicle Used for: _		Typica
Also, indicate any customer	No. of Axles:	(tractor)	(trailer)	No. of Lift Axles:	_ Technicia	ın's Name: _
complaint below.	Check	list for Techni	cian			
Customer's Complaint		onfirmed comp		STEP C - H	ow to Rea	ad the BA
(Please check all that apply)	•	₩ .		Use the chart (label) or	the BASIC to	est cup to dec
"Relay valve □ leaks oil / □ malfunctions" □ no □ yes*				Use the lower acceptance line for low air use vehic air use vehicles (from Step A).		
"Dash valve ☐ leaks oil / ☐ malfunctions" ☐ no ☐ yes*						
"Air dryer leaks oil"		🛄 no 🛄 y	es*	`	_ ` ′	
□ "Governor malfunction" □ no □ yes* □ "Oil in gladhands" □ no □ yes*				1. Record days since air tanks were last drained. 2. Record amount of oil found:		
bow much oil did you find?		ш по ш у	es"	tariks were last draine	iu. 🗂	oli louriu.
how much oil did you find? "Oil on ground or vehicle exterior" □ no □ yes*				days	units	
amount described:						
☐ "Short air dryer cartridge life"	1		_		1	<u> </u>
replaces every: □ miles, □ kms, or □ months □ "Oil in air tanks" amount described:				If number of days is:	accontance	s at or below line for numbe
				30-60 days (high air use)	of days	
We will measure amount currently found when we get to step B of the test.			test.	Or	if all layed in above	
☐ "Excessive engine oil loss" amount described:				30-90 days (low air use)	acceptance line for number	
Is the engine leaking oil?		🖵 no 🖵 y	es*			ays →
Is the compressor leaking oil? □ no □ yes*				Otherwise	if oil level is at or below 30-day acceptance line →	
☐ Other complaint:				Otherwise		
□ No customer complaint.				(if the number of days is	if oil level is above 30-day	
* Note: A confirmed complaint above does NOT mean that the compressor			essor	unknown, or outside the limits above)	acceptance line	
must be replaced: the full BASIC to				illilits above)		
			/		BASIC T	est Example
BASIC test starts here:	STEP	A - Select o	ne:	An oil level of 4 units		•
				An oil level of 4 units in a sixty-day period is wi (at or below the line) for both low and high air		
☐ This is a low air use vehicle: Line haul (single trailer) with 5 or less axles, or				vehicle to service.		
,	Carbaga trusts tr	anait bua bulk				x® Air System Ir
☐ This is a high air use vehicle: (more evlee	arioit buo, bulk	_			Vehicles
unloader, or line haul with 6 or	more axies.	nen go to Ster	В.	Le Le	vel	Jse Vehicles
CTED D. Maranas dia	01 1 0			1	6- High	table Leve

SIEP B - Measure the Charging System Contents |

- 1. Park and chock vehicle on level ground. Drain the air system by pumping the service brakes.
- Completely drain **ALL** the air tanks into a single **BASIC** cup.
- 3. If there is less than one unit of contents total, end the test now and return the vehicle to service. Vehicle passes.
- 4. If more than one oil unit of water (or a cloudy emulsion mixture) is found:
 - (a) Change the vehicle's air dryer cartridge see Footnote 1.
 - (b) Conduct the 4 minute leakage test (Step D),
 - (c) STOP the inspection, and check the vehicle again after 30 days - see Footnote 2.



Units

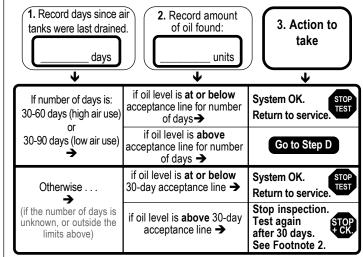
Otherwise, go to Step C.

Note for returning vehicles that are being retested after a water/ cloudy emulsion mixture was found last time and the air dryer cartridge replaced: If more than one oil unit of water or a cloudy emulsion mixture is found again, stop the BASIC test and consult the air dryer's Service Data sheet troubleshooting section.

Footnote 1: Note: Typical air dryer cartridge replacement schedule is every 3 yrs/ 300K miles for low air use vehicles and every year/100K miles for high air use vehicles. Footnote 2: Caution: To get an accurate reading for the amount of oil collected during a 30 day period, ask the customer not to drain the air tanks before returning. (Note that 30-90 days is the recommended air tank drain schedule for vehicles equipped with a Bendix air dryer that are properly maintained.) If, in cold weather conditions, the 30 day air tank drain schedule is longer than the customer's usual draining interval, the customer must determine, based on its experience with the vehicle, whether to participate now, or wait for warmer weather. See the cold weather tips in Bendix Bulletins TCH-008-21 and TCH-008-22 (included in Appendix B of the Advanced Troubleshooting Guide).

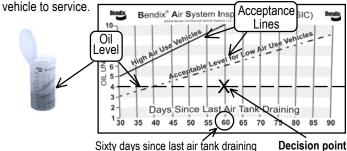
STEP C - How to Read the BASIC Test Chart

Use the chart (label) on the BASIC test cup to decide the action to take. Use the lower acceptance line for low air use vehicles, and upper line for high air use vehicles (from Step A).



BASIC Test Example

An oil level of 4 units in a sixty-day period is within the acceptance area (at or below the line) for both low and high air use vehicles. Return the



STEP D - Air Brake System Leakage Test

Park the vehicle on level ground and chock the wheels. Build system pressure to governor cut-out and let the pressure stabilize for one minute.

1: Observe the dash gauges for two additional minutes without the service brakes applied. 2: Release the parking brake and apply the service brakes (you may use a block of wood to hold the pedal in position). Allow the air pressure to stabilize, and then observe the dash gauges for 2 minutes. If you see a **noticeable decrease** of the readings, repair leaks and repeat this test to confirm that air leaks have been repaired. Return vehicle to service, but please repeat BASIC test at next service interval. Note: Leaks can also be present in the charging system, parking brakes, and/or other components.

If no air leakage was detected, and if you are conducting this test after completing Step C, go to Step E.

STEP E - If no air leakage was detected in Step D

Replace the compressor. Note: If the compressor is within warranty period, please follow standard warranty procedures. Attach the completed checklist to warranty claim.

If, after a compressor was already replaced, the vehicle fails the BASIC test again, do not replace the compressor again, instead use the Advanced Troubleshooting Guide to investigate the cause(s).

