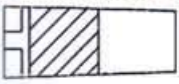
NKK ALPHAplus : Testing the oil outside the system for car A/C

Testing the oil outside the system

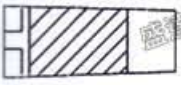
PREPARATION

1. Start the engine
2. Switch on the A/C and turn down the blower of the A/C.
3. Wait for about 60 seconds until the pipe leading to the low side valve is warm enough to touch. You may need a longer time if the engine has been on idle for a while.
4. Place the oil phase tester on the low side valve, then press the tester 2-3 times.
5. Match the oil phase tester to the results chart below.

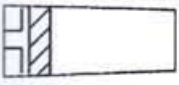
PREPARATION



Normal - 2/3 separation on the segment. No need for oil supplement



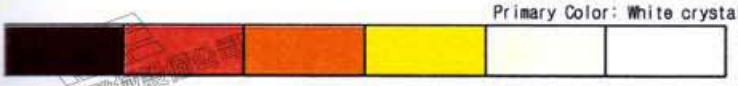
Lacks a little - 1/2 separation on the segment. One can of oil conditioner and one can oil charge Required.



Serious lack -less than 1/3 separation on the segment. Two can of oil charges and one can of oil conditioner required. May need to check for

COLOR SOLUTION

Primary Color: White crystals



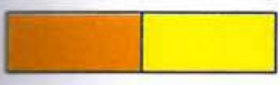
- Primary color : Chocolate, Brown or Orange

· Indication: A reservoir of acid/acidic products dissolved in the oil phase

· Cause: Prolonged exposure to high contaminant levels, extreme heat, or numerous other circumstances.

· Recommend: Change the oil and a fresh refrigerant to salvage the remaining compressor life .

- Primary color: Light Brown or Yellow.



· Indication: An acceptable condition for all system lubricants.

· Recommend: Occasionally watching the oil phase Tester or Changing oil and fresh refrigerant are acceptable for use at this level.

· Special Note: This status should not be considered as a borderline condition since many systems tend to be normal at this level. This status may revert to a pale yellow when the same system is measured at a lower ambient, or under other operating conditions that stabilized and improved dryer performances. Cross-contamination can give a "false positive" brown.

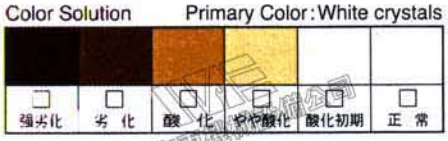
- Primary color: Pale Yellow or White Crystal.

· Indication: All clean condition for all system lubricants.

· Special Note: None.

Interpreting the Results

Color Solution — Primary Color : White crystals

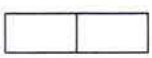


□Primary Color : **Chocolate, Brown or Orange**

Indication: A reservoir of acid/acidic products dissolved in the Oil Phase.
Cause : Prolonged exposure to high contaminant levels. Extreme heat. Numerous other circumstances.
Recommend : Change oil and fresh refrigerant to salvage remaining Compressor life.
Special Note : Compressor Oil viscosity and lubricity has diminished.

□Primary Color : **Light Brown or Yellow**

Indication: An acceptable condition for all system lubricants.
Recommend : Occasional watching the oil phase or changing oil and fresh refrigerant are acceptable for use at this level.
Special Note : This status should not be considerable a borderline condition since many systems tend to normally at this level. This status may revert to Pale Yellow when the same system is measured at a lower ambient, or other operating conditions that stabilized and improve dryer performance. Cross-Contamination can give a "False Positive:Brown."



□Primary Color : **Pale Yellow or White Crystal**

Indication : All clean condition for all system lubricants.
Special Note : None.

ALPHAplus®

For CFC-12

Testing Oil "Outside" a System.

Preparation.

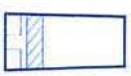
1. Start the engine.
2. Switch on A/C and turn down the blower of the A/C.
3. Wait for about 60 seconds until the pipe leading to the Low Side valve is warm to the touch.
4. Put an Oil Phase Tester on a Law Side valve, and press the Oil Phase Tester 2~3 times.
5. Match the Oil Phase Tester to the Results Chart bellow.

Interpreting the Results.

Wet Level

□ Normal : Wet full on the segment No need supplement oil.

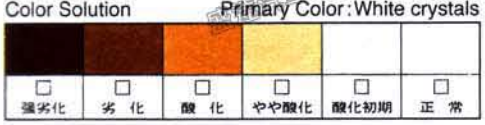
□ Lake a little : 1/2~2/3 separation on the segment. One can of Oil change and one can of Oil conditioner required.



□ Serious lack less than : 1/3 separation on the segment. Two cans of Oil charge and one of Oil conditioner required.

Interpreting the Results

Color Solution — Primary Color : White crystals

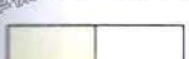


□ Primary Color : **Chocolate, Brown or Orange**

Indication: A reservoir of acid/acidic products dissolved in the Oil Phase.
Cause : Prolonged exposure to high contaminant levels. Extreme heat. Numerous other circumstances.
Recommend : Change oil and fresh refrigerant to salvage remaining Compressor life.
Special Note : Compressor Oil viscosity and lubricity has diminished.

□ Primary Color : **Light Brown or Yellow**

Indication: An acceptable condition for all system lubricants.
Recommend : Occasional watching the oil phase or changing oil and fresh refrigerant are acceptable for use at this level.
Special Note : This status should not be considerable a borderline condition since many systems tend to normally at this level. This status may revert to Pale Yellow when the same system is measured at a lower ambient, or other operating conditions that stabilized and improve dryer performance. Cross-Contamination can give a "False Positive:Brown."



□ Primary Color : **Pale Yellow or White Crystal**

Indication : All clean condition for all system lubricants.
Special Note : None.

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Testing Oil "Outside" a System.

Preparation.

1. Start the engine.
2. Switch on A/C and lower the blast of the A/C.
3. Wait for about 60 seconds until the pipe leading to the Low Side valve is warm to the touch.
4. Put an Oil Phase Tester on a Law Side valve, and press 2-3 time an Oil Phase Tester.
5. Match the Oil Phase Tester to the Results Chart.

Interpreting the Results.

Wet Level

□ Normal : 2/3 separation on the segment No need supplement oil.

□ Lake a little : 1/2 separation on the segment. One can of Oil change and one can of Oil conditioner required.

□ Lake a Plenty : 1/3 separation on the segment. Two cans of Oil charge and one of Oil conditioner required.