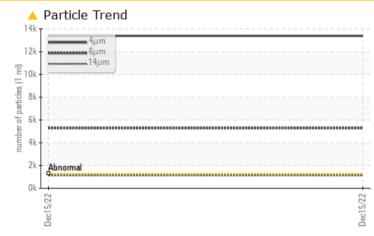


## **PROBLEM SUMMARY**

### Area Compressor Machine Id 2140 CO06

Component Compressor Fluid QUINCY QUINSYN PLUS (50 GAL)

### COMPONENT CONDITION SUMMARY



### RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

### PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	 
Particles >4µm	ASTM D7647	>1300	<u> </u>	 
Particles >6µm	ASTM D7647	>320	<b>6</b> 5279	 
Particles >14µm	ASTM D7647	>40	<u> </u>	 
Particles >21µm	ASTM D7647	>10	<b>A</b> 368	 
Particles >38µm	ASTM D7647	>3	<b>A</b> 31	 
Oil Cleanliness	ISO 4406 (c)	>17/15/12	<b>A</b> 21/20/17	 

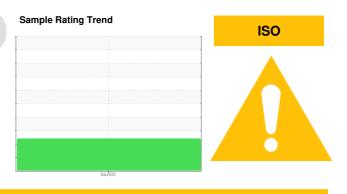
Customer Id: FLAMONNC Sample No.: WC0764193 Lab Number: 05758246 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

*To change component or sample information:* Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>



RECOMMENDED ACTIONS					
Action	Status	Date	Done By	Description	
Change Filter			?	We recommend you service the filters on this component.	

HISTORICAL DIAGNOSIS



## **OIL ANALYSIS REPORT**

### Area Compressor 2140 CO06 Component

### Compressor **QUINCY QUINSYN PLUS (50 GAL)**

### DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

### Wear

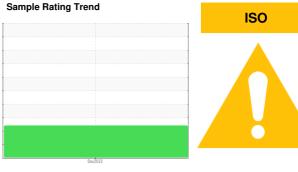
All component wear rates are normal.

### Contamination

There is a high amount of particulates present in the oil.

#### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

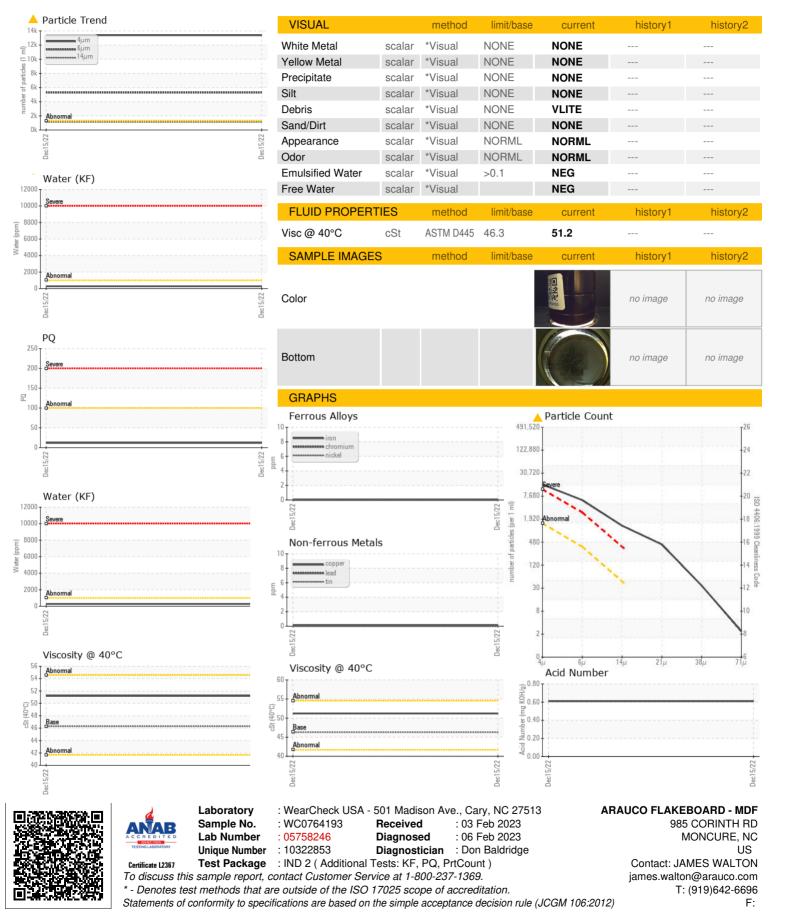


Sample Number     Client Info     IS     PC0764133     ··     ··     ··       Sample Date     Client Info     IS     Dice 2222     ··     ··     ··       Machine Age     hrs     Client Info     O     ··     ··     ··       Oil Age     hrs     Client Info     N/A     ··     ··     ··       Sample Status     Client Info     MRN     ··     ··     ··     ··       WEAR METALS     Client Info     MRN     faith Status     ··     ··     ··       Verse     ASTM DS155     ··     12     ··     ··     ··       Nickel     pm     ASTM DS155     ··     0     ··     ··     ··       Nickel     pm     ASTM DS155     ··     0     ··     ··     ··       Nickel     pm     ASTM DS155     ··     0     ··     ··     ··       Nickel     pm     ASTM DS155     ··     0     ··     ··     ··       Aluminum     pm     ASTM DS155     ··     0     ··     ··     ··       Aluminum     pm     ASTM DS155     ··     0     ··     ··     ··       Norde     pm     ASTM DS155     ·· </th <th>SAMPLE INFORM</th> <th>IATION</th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Machine Age       hrs       Client Info       0           Oil Age       hrs       Client Info       0           Sample Staus       Info       N/A            WEAR METALS       method       Imit/base       current       history1       history2         PQ       ASTM DB184       12            Chromium       pm       ASTM DB185       >50       0           Nickel       pm       ASTM DB185       >10       0           Nickel       pm       ASTM DB185       >25       0           Aluminum       pm       ASTM DB185       >25       0           Lead       pm       ASTM DB185       >25       0           Adminum       pm       ASTM DB185       >50       <1	Sample Number		Client Info		WC0764193		
Oil Age         hrs         Client Info         N/A             Sample Status         Client Info         N/A             WEAR METALS         method         limit/base         current         history1         history2           PQ         ASTM 05165m         >50         0             Tran         ppm         ASTM 05165m         >10         0            Nickel         ppm         ASTM 05165m         0             Titanium         ppm         ASTM 05165m         0             Silver         ppm         ASTM 05165m         >25         0             Aluminum         ppm         ASTM 05165m         >50         <1	Sample Date		Client Info		15 Dec 2022		
Oil Changed     Client Info     N/A	Machine Age	hrs	Client Info		0		
Sample Status         method         Imil/base         current         history1         history2           PQ         ASTM D8184         12             Iron         ppm         ASTM D5185m         >50         0             Chromium         ppm         ASTM D5185m         >10         0             Nickel         ppm         ASTM D5185m         0              Nickel         ppm         ASTM D5185m         0              Aluminum         ppm         ASTM D5185m         >25         0             Lead         ppm         ASTM D5185m         >50         <1	Oil Age	hrs	Client Info		0		
WEAR METALS         method         limit/base         current         history1         history2           PQ         ASTM D8184         12             Iron         ppm         ASTM D5185         >50         0             Nickel         ppm         ASTM D5185         >10         0             Nickel         ppm         ASTM D5185         >25         0             Silver         ppm         ASTM D5185         >25         0             Aluminum         ppm         ASTM D5185         >25         0             Lead         ppm         ASTM D5185         >50         -1             Copper         ppm         ASTM D5185         >50              Adminum         ppm         ASTM D5185         50              Copper         ppm         ASTM D5185         >0              Cadmium         ppm         ASTM D5185         0	Oil Changed		Client Info		N/A		
PQ       ASTM D8184       12           Iron       ppm       ASTM D5185m       >50       0           Nickel       ppm       ASTM D5185m       0            Nickel       ppm       ASTM D5185m       0            Silver       ppm       ASTM D5185m       0            Aluminum       ppm       ASTM D5185m       >25       0           Aluminum       ppm       ASTM D5185m       >25       0           Aluminum       ppm       ASTM D5185m       >25       0           Copper       ppm       ASTM D5185m       >15       0           Vanadium       ppm       ASTM D5185m       0            Adminum       ppm       ASTM D5185m       0	Sample Status				ABNORMAL		
Iron         ppm         ASTM D5185m         >50         0             Nickel         ppm         ASTM D5185m         >10         0             Nickel         ppm         ASTM D5185m         0             Silver         ppm         ASTM D5185m         0             Aluminum         ppm         ASTM D5185m         >25         0             Aluminum         ppm         ASTM D5185m         >25         0             Copper         ppm         ASTM D5185m         >25         0             Vanadium         ppm         ASTM D5185m         >15         0             Vanadium         ppm         ASTM D5185m         0              Admium         ppm         ASTM D5185m         0              Magnesium         ppm         ASTM D5185m         0              Magnesium         ppm         ASTM D5185m         6	WEAR METALS		method	limit/base	current	history1	history2
Chromium         ppm         ASTM D5185m         >10         0             Nickel         ppm         ASTM D5185m         0             Silver         ppm         ASTM D5185m         25         0             Aluminum         ppm         ASTM D5185m         >25         0	PQ		ASTM D8184		12		
Chromium         ppm         ASTM D5185m         >10         0             Nickel         ppm         ASTM D5185m         0             Silver         ppm         ASTM D5185m         25         0             Aluminum         ppm         ASTM D5185m         >25         0	Iron	ppm	ASTM D5185m	>50	0		
Titanium       ppm       ASTM D5185m       0           Silver       ppm       ASTM D5185m       25       0           Aluminum       ppm       ASTM D5185m       >25       0           Lead       ppm       ASTM D5185m       >25       0           Copper       ppm       ASTM D5185m       >25       0           Vanadium       ppm       ASTM D5185m       >15       0           ADDITIVES       method       limit/base       current       history1       history2         Boron       ppm       ASTM D5185m       0            Molybdenum       ppm       ASTM D5185m       0            Maganese       ppm       ASTM D5185m       0            Galcium       ppm       ASTM D5185m       2       6           Magnesium       ppm       ASTM D5185m       2       6           Sulfur       ppm       ASTM D5185m       2       6	Chromium	ppm		>10	0		
Silver         ppm         ASTM D5185m         >25         0             Aluminum         ppm         ASTM D5185m         >25         0             Lead         ppm         ASTM D5185m         >25         0             Copper         ppm         ASTM D5185m         >50         <1	Nickel		ASTM D5185m		0		
Aluminum       ppm       ASTM D5185m       >25       0           Lead       ppm       ASTM D5185m       >50       <1	Titanium		ASTM D5185m		0		
Lead         ppm         ASTM D5185m         >25         0             Copper         ppm         ASTM D5185m         >50         <1	Silver	ppm	ASTM D5185m		0		
Lead         ppm         ASTM D5185m         >25         0             Copper         ppm         ASTM D5185m         >50         <1	Aluminum			>25	0		
Copper         ppm         ASTM D5185m         >50         <1             Tin         ppm         ASTM D5185m         >15         0             Vanadium         ppm         ASTM D5185m         0              ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0             Molybdenum         ppm         ASTM D5185m         0             Manganese         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         0             Calcium         ppm         ASTM D5185m         2             Galcium         ppm         ASTM D5185m         6             Sulfur         ppm         ASTM D5185m         20         <1	Lead		ASTM D5185m	>25	0		
Tin         ppm         ASTM D5185m         >15         0             Vanadium         ppm         ASTM D5185m         0              Cadmium         ppm         ASTM D5185m         0              ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0             Barium         ppm         ASTM D5185m         0             Maganese         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         <1					<1		
Vanadium         ppm         ASTM D5185m         0             Cadmium         ppm         ASTM D5185m         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0             Barium         ppm         ASTM D5185m         0             Molybdenum         ppm         ASTM D5185m         0             Magnessum         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         6             Calcium         ppm         ASTM D5185m         1             Sulfur         ppm         ASTM D5185m         1             Sulfur         ppm         ASTM D5185m         0             Sodium         ppm         ASTM D5185m         0             Sodium         ppm         ASTM D5185m         20         <1 </td <td></td> <td></td> <td>ASTM D5185m</td> <td>&gt;15</td> <td>0</td> <td></td> <td></td>			ASTM D5185m	>15	0		
Cadmium         ppm         ASTM D5185m         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0             Barium         ppm         ASTM D5185m         0             Malydeenum         ppm         ASTM D5185m         0             Manganese         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         <1	Vanadium				0		
ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0              Barium         ppm         ASTM D5185m         0              Molybdenum         ppm         ASTM D5185m         0              Magnesium         ppm         ASTM D5185m         0              Calcium         ppm         ASTM D5185m         <1	Cadmium		ASTM D5185m		0		
Boron         ppm         ASTM D5185m         0             Barium         ppm         ASTM D5185m         1             Molybdenum         ppm         ASTM D5185m         0             Manganese         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         <1				line it /l		In the target of the	history 0
Barium         ppm         ASTM D5185m         1             Molybdenum         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         <1             Calcium         ppm         ASTM D5185m         <1             Calcium         ppm         ASTM D5185m         6             Zinc         ppm         ASTM D5185m         6             Sulfur         ppm         ASTM D5185m         3             Sulfur         ppm         ASTM D5185m         22         6             Sulfur         ppm         ASTM D5185m         >20         <1             Sulfur         ppm         ASTM D5185m         >20         <1             Vater         %         ASTM D5185m         >20         <1             Particles >4µm         ASTM D6304         >0.1         <				limit/base		history1	history2
Molybdenum         ppm         ASTM D5185m         0             Manganese         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         <1							
Manganese       ppm       ASTM D5185m       0           Magnesium       ppm       ASTM D5185m       <1							
Magnesium       ppm       ASTM D5185m       <1	-				-		
Calcium         ppm         ASTM D5185m         2             Phosphorus         ppm         ASTM D5185m         6             Zinc         ppm         ASTM D5185m         1             Sulfur         ppm         ASTM D5185m         3             Sulfur         ppm         ASTM D5185m         3             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         6             Sodium         ppm         ASTM D5185m         >20         <1	•				-		
Phosphorus         ppm         ASTM D5185m         6             Zinc         ppm         ASTM D5185m         1             Sulfur         ppm         ASTM D5185m         3             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         6             Sodium         ppm         ASTM D5185m         >25         6             Sodium         ppm         ASTM D5185m         >20         <1             Potassium         ppm         ASTM D6304         >0.1         0.027             Water         %         ASTM D6304         >1000         272.8             Particles >4µm         ASTM D7647         >1300         13387             Particles >4µm         ASTM D7647         >32.0         5279             Particles >1µm         ASTM D7647         >40         1132             <	J						
Zinc         ppm         ASTM D5185m         1             Sulfur         ppm         ASTM D5185m         3             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         6             Sodium         ppm         ASTM D5185m         >25         6             Potassium         ppm         ASTM D5185m         >20         <1							
SulfurppmASTM D5185m3CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>256SodiumppmASTM D5185m>20<1							
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         6             Sodium         ppm         ASTM D5185m         >20         <1							
Silicon       ppm       ASTM D5185m       >25       6           Sodium       ppm       ASTM D5185m       0           Potassium       ppm       ASTM D5185m       >20       <1	Sulfur	ppm	ASTM D5185m		3		
Sodium         ppm         ASTM D5185m         0             Potassium         ppm         ASTM D5185m         >20         <1             Water         %         ASTM D6304         >0.1         0.027             ppm Water         ppm         ASTM D6304         >1000         272.8             FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >1300         13387             Particles >6µm         ASTM D7647         >320         5279             Particles >14µm         ASTM D7647         >40         1132             Particles >21µm         ASTM D7647         >10         368             Particles >38µm         ASTM D7647         >3         2             Particles >71µm         ASTM D7647         >3         2             Oil Cleanliness         ISO 4406 (c)         >17/15/12         21/20/17 </th <th>CONTAMINANTS</th> <th></th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium         ppm         ASTM D5185m         >20         <1             Water         %         ASTM D6304         >0.1         0.027             ppm Water         ppm         ASTM D6304         >1000         272.8             FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >1300         ▲ 13387             Particles >6µm         ASTM D7647         >320         ▲ 5279             Particles >14µm         ASTM D7647         >40         ▲ 1132             Particles >21µm         ASTM D7647         >10         ▲ 368             Particles >38µm         ASTM D7647         >3         2             Particles >71µm         ASTM D7647         >3         2             Oil Cleanliness         ISO 4406 (c)         >17/15/12         21/20/17             FLUID DEGRADATION         method         limit/base         current         history1	Silicon	ppm	ASTM D5185m	>25	6		
Water       %       ASTM D6304       >0.1       0.027           ppm Water       ppm       ASTM D6304       >1000       272.8           FLUID CLEANLINESS       method       limit/base       current       history1       history2         Particles >4µm       ASTM D7647       >1300       13387           Particles >6µm       ASTM D7647       >320       5279           Particles >6µm       ASTM D7647       >40       1132           Particles >14µm       ASTM D7647       >10       368           Particles >21µm       ASTM D7647       >3       2           Particles >38µm       ASTM D7647       >3       2           Particles >71µm       ASTM D7647       >3       2           Oil Cleanliness       ISO 4406 (c)       >17/15/12       21/20/17           FLUID DEGRADATION       method       limit/base       current       history1       history2	Sodium	ppm	ASTM D5185m		0		
ppm Water         ppm         ASTM D6304         >1000         272.8             FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >1300         13387             Particles >6µm         ASTM D7647         >320         5279             Particles >6µm         ASTM D7647         >40         1132             Particles >14µm         ASTM D7647         >40         3688             Particles >21µm         ASTM D7647         >3         31             Particles >38µm         ASTM D7647         >3         2             Particles >71µm         ASTM D7647         >3         2             Oil Cleanliness         ISO 4406 (c)         >17/15/12         21/20/17             FLUID DEGRADATION         method         limit/base         current         history1         history2	Potassium	ppm					
FLUID CLEANLINESS       method       limit/base       current       history1       history2         Particles >4µm       ASTM D7647       >1300       ▲ 13387           Particles >6µm       ASTM D7647       >320       ▲ 5279           Particles >6µm       ASTM D7647       >40       ▲ 1132           Particles >14µm       ASTM D7647       >40       ▲ 1132           Particles >21µm       ASTM D7647       >10       ▲ 368           Particles >38µm       ASTM D7647       >3       ▲ 31           Particles >71µm       ASTM D7647       >3       2           Oil Cleanliness       ISO 4406 (c)       >17/15/12       21/20/17           FLUID DEGRADATION       method       limit/base       current       history1       history2	Water	%	ASTM D6304	>0.1	0.027		
Particles >4μm       ASTM D7647       >1300       ▲ 13387           Particles >6μm       ASTM D7647       >320       ▲ 5279           Particles >14μm       ASTM D7647       >40       ▲ 1132           Particles >21μm       ASTM D7647       >10       ▲ 368           Particles >21μm       ASTM D7647       >3       ▲ 31           Particles >38μm       ASTM D7647       >3       ▲ 31           Particles >71μm       ASTM D7647       >3       2           Oil Cleanliness       ISO 4406 (c)       >17/15/12       ▲ 21/20/17           FLUID DEGRADATION       method       limit/base       current       history1       history2	ppm Water	ppm	ASTM D6304	>1000	272.8		
Particles >6µm       ASTM D7647       >320       ▲ 5279           Particles >14µm       ASTM D7647       >40       ▲ 1132           Particles >21µm       ASTM D7647       >10       ▲ 368           Particles >21µm       ASTM D7647       >3       ▲ 31           Particles >38µm       ASTM D7647       >3       ▲ 31           Particles >71µm       ASTM D7647       >3       2           Oil Cleanliness       ISO 4406 (c)       >17/15/12       ▲ 21/20/17           FLUID DEGRADATION       method       limit/base       current       history1       history2	FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >14μm       ASTM D7647       >40       ▲ 1132           Particles >21μm       ASTM D7647       >10       ▲ 368           Particles >38μm       ASTM D7647       >3       ▲ 31           Particles >71μm       ASTM D7647       >3       ▲ 31           Oil Cleanliness       ISO 4406 (c)       >17/15/12       ▲ 21/20/17           FLUID DEGRADATION       method       limit/base       current       history1       history2	Particles >4µm		ASTM D7647	>1300	<b>1</b> 3387		
Particles >21μm       ASTM D7647       >10       ▲ 368           Particles >38μm       ASTM D7647       >3       ▲ 31           Particles >71μm       ASTM D7647       >3       2           Oil Cleanliness       ISO 4406 (c)       >17/15/12       ▲ 21/20/17           FLUID DEGRADATION       method       limit/base       current       history1       history2	Particles >6µm		ASTM D7647	>320	<u> </u>		
Particles >38μm         ASTM D7647         >3         31             Particles >71μm         ASTM D7647         >3         2             Oil Cleanliness         ISO 4406 (c)         >17/15/12         21/20/17             FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >14µm		ASTM D7647	>40	<u> </u>		
Particles >71μm         ASTM D7647         >3         2             Oil Cleanliness         ISO 4406 (c)         >17/15/12 <b>21/20/17</b> FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >21µm		ASTM D7647	>10	<u> </u>		
Oil Cleanliness         ISO 4406 (c)         >17/15/12         21/20/17             FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >38µm		ASTM D7647	>3	<mark>/</mark> 31		
FLUID DEGRADATION method limit/base current history1 history2	Particles >71µm		ASTM D7647	>3	2		
	Oil Cleanliness		ISO 4406 (c)	>17/15/12	<b>A</b> 21/20/17		
Acid Number (AN) mg KOH/g ASTM D8045 0.61	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.61		

Contact/Location: JAMES WALTON - FLAMONNC



# **OIL ANALYSIS REPORT**



Contact/Location: JAMES WALTON - FLAMONNC