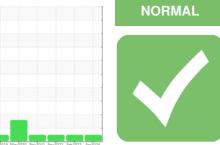


## **OIL ANALYSIS REPORT**

SAMPLE INFORMATION method

Sample Rating Trend



Machine Id

# QUINCY 93802J - ATRIUM

Compressor Fluid PG 32 (--- GAL)

#### DIAGNOSIS

## Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

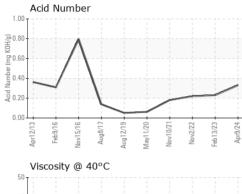
## Fluid Condition

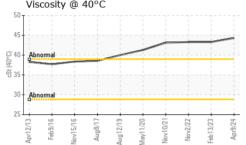
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sample Number         Client Info         WC0911604         WC0771116         WC0736176           Sample Date         Client Info         09 Apr 2024         13 Feb 2023         02 Nov 2022           Machine Age         hrs         Client Info         57942         54538         54044           Oil Age         hrs         Client Info         1994         3000         1000           Oil Changed         Client Info         NorRMAL         NORMAL         NORMAL         NORMAL           CONTAMINATION         method         limit/base         current         history1         history2           Water         WC Method         >0.1         NEG         NEG         NEG           WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >50         0         <1			methou	mmubase	current	nistory i	nistoryz
Machine Age         hrs         Client Info         57942         54538         54044           Oil Age         hrs         Client Info         Not Changd         Nort Add         Nort Add	Sample Number		Client Info		WC0911604	WC0771116	WC0736176
Oil Age         hrs         Client Info         1994         3000         1000           Oil Changed         Client Info         Not Changd         Not Changd         Not Changd         Not Changd           Sample Status          imit/base         current         history1         Nistory2           Water         WC Method         >0.1         NEG         NEG         NEG           WEAR METALS         method         imit/base         current         history1         history2           Iron         ppm         ASTM 05185m         >50         0         <1         <1         1           Chromium         ppm         ASTM 05185m         >10         0         0         0         0           Nickel         ppm         ASTM 05185m         <1         0         0         0         0           Silver         ppm         ASTM 05185m         >25         0         0         0         0         0         0           Cladd         ppm         ASTM 05185m         >25         1         <1         0         0         0         0         0         0         0         0         0         0         0         0         0	Sample Date		Client Info		09 Apr 2024	13 Feb 2023	02 Nov 2022
Oil Changed Sample StatusClient InfoNot Changd NORIMALNot Changd NORIMALNot Changd NORIMALCONTAMINATIONmethodlimit/basecurrenthistory1history2WaterWC Method >0.1NEGNEGNEGWEAR METALSmethodlimit/basecurrenthistory1history2IronppmASTM D5185m>500<1<1ChromiumppmASTM D5185m>10000NickelppmASTM D5185m<1000SilverppmASTM D5185m25<100AluminumppmASTM D5185m>25000LeadppmASTM D5185m>502<1<1TinppmASTM D5185m>502<100CopperppmASTM D5185m>502<1<1<1AntimonyppmASTM D5185m00000CadmiumppmASTM D5185m00000ADUTIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m10000MarganeseppmASTM D5185m1000MarganeseppmASTM D5185m1992ZincppmASTM D5185m19923Marganesep	Machine Age	hrs	Client Info		57942	54538	54044
Sample StatusnethodImit/basecurrenthistory1NORMALCONTAMINATIONmethodimit/basecurrenthistory1history2WaterWC Method >0.1NEGNEGNEGWEAR METALSmethodimit/basecurrenthistory1history2IronppmASTM D5185m>500<1<1ChromiumppmASTM D5185m<1000NickelppmASTM D5185m0000SilverppmASTM D5185m0000LeadppmASTM D5185m>25000CopperppmASTM D5185m>502<1<1TinppmASTM D5185m>502<100CopperppmASTM D5185m>502<100VanadiumppmASTM D5185m00000CadmiumppmASTM D5185m00000ADITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m00000MarganeseppmASTM D5185m1000MarganeseppmASTM D5185m1000Astm D5185m199224555322ContamppmASTM D5185m522411 <t< th=""><th>Oil Age</th><th>hrs</th><th>Client Info</th><th></th><th>1994</th><th>3000</th><th>1000</th></t<>	Oil Age	hrs	Client Info		1994	3000	1000
CONTAMINATION         method         limit/base         current         history1         history2           Water         WC Method         >0.1         NEG         NEG         NEG           Wear         WC Method         >0.1         NEG         NEG         NEG           WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >50         0         <1         <1           Chromium         ppm         ASTM D5185m         >10         0         0         0           Nickel         ppm         ASTM D5185m         25         <1         0         0           Silver         ppm         ASTM D5185m         >25         0         0         0           Lead         ppm         ASTM D5185m         >25         0         0         0           Antimony         ppm         ASTM D5185m         >15         <1         <1         0           Antimony         ppm         ASTM D5185m         0         0         0         0           Antimony         ppm         ASTM D5185m         0         0         0         0      C	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Water         WC Method         >0.1         NEG         NEG         NEG           WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >50         0         <1         <1           Chromium         ppm         ASTM D5185m         >10         0         0         0           Nickel         ppm         ASTM D5185m         <1         0         0         0           Nickel         ppm         ASTM D5185m         0         0         0         0           Silver         ppm         ASTM D5185m         >25         <1         0         0           Aluminum         ppm         ASTM D5185m         >25         0         0         0           Lead         ppm         ASTM D5185m         >50         2         <1         <1         0           Antimony         ppm         ASTM D5185m         >15         <1         <1         <1         0           Astm D5185m         0         0         0         0         0         0           Caddmium         ppm         ASTM D5185m         0         0         0 </th <th>Sample Status</th> <th></th> <th></th> <th></th> <th>NORMAL</th> <th>NORMAL</th> <th>NORMAL</th>	Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >50         0         <1         <1           Chromium         ppm         ASTM D5185m         >10         0         0         0           Nickel         ppm         ASTM D5185m         <1         0         0         0           Silver         ppm         ASTM D5185m         0         0         0         0           Aluminum         ppm         ASTM D5185m         >25         <1         0         0           Lead         ppm         ASTM D5185m         >25         0         0         0           Copper         ppm         ASTM D5185m         >50         2         <1         <1         0           Antimony         ppm         ASTM D5185m         0         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           Boron         ppm         ASTM D5185m         0         0         0         0           Barium         ppm         ASTM D5185m         1         0         0	CONTAMINATION	٧	method	limit/base	current	history1	history2
Iron         ppm         ASTM D5185m         >50         0         <1	Water		WC Method	>0.1	NEG	NEG	NEG
Chromium         ppm         ASTM D5185m         >10         0         0         0           Nickel         ppm         ASTM D5185m         <1         0         0           Titanium         ppm         ASTM D5185m         0         0         0           Silver         ppm         ASTM D5185m         0         0         0           Aluminum         ppm         ASTM D5185m         >25         <1         0         0           Lead         ppm         ASTM D5185m         >25         0         0         0           Copper         ppm         ASTM D5185m         >50         2         <1         <1           Tin         ppm         ASTM D5185m         >50         2         <1         <1           Antimony         ppm         ASTM D5185m         >15         <1         <1         0           Vanadium         ppm         ASTM D5185m         0         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           Boron         ppm         ASTM D5185m         1         0         0         0           Magnesium	WEAR METALS		method	limit/base	current	history1	history2
Nickel         ppm         ASTM D5185m         <1	Iron	ppm	ASTM D5185m	>50	0	<1	<1
Titanium         ppm         ASTM D5185m         0         0         0         0           Silver         ppm         ASTM D5185m         0         0         0           Aluminum         ppm         ASTM D5185m         >25         <1         0         0           Lead         ppm         ASTM D5185m         >25         0         0         0           Copper         ppm         ASTM D5185m         >50         2         <1         <1         0           Tin         ppm         ASTM D5185m         >50         2         <1         <1         0           Antimony         ppm         ASTM D5185m         >15         <1         <1         0         0           Antimony         ppm         ASTM D5185m         0         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           ADDITIVES         method         Imit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0         0         0           Molybdenum         ppm         ASTM D5185m         1         0 <th>Chromium</th> <th>ppm</th> <th>ASTM D5185m</th> <th>&gt;10</th> <th>0</th> <th>0</th> <th>0</th>	Chromium	ppm	ASTM D5185m	>10	0	0	0
Silver         ppm         ASTM D5185m         0         0         0           Aluminum         ppm         ASTM D5185m         >25         <1	Nickel	ppm	ASTM D5185m		<1	0	0
Aluminum         ppm         ASTM D5185m         >25         <1	Titanium	ppm	ASTM D5185m		0	0	0
Lead         ppm         ASTW D5185m         >25         0         0         0           Copper         ppm         ASTW D5185m         >50         2         <1	Silver	ppm	ASTM D5185m		0	0	0
Copper         ppm         ASTM D5185m         >50         2         <1	Aluminum	ppm	ASTM D5185m	>25	<1	0	0
Tin         ppm         ASTM D5185m         >15         <1	Lead	ppm	ASTM D5185m	>25	0	0	0
AntimonyppmASTM D5185mVanadiumppmASTM D5185m000CadmiumppmASTM D5185m000ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m0000BariumppmASTM D5185m0000BariumppmASTM D5185m0000ManganeseppmASTM D5185m0000MagnesiumppmASTM D5185m1000CalciumppmASTM D5185m1000CalciumppmASTM D5185m1993ZincppmASTM D5185m522455532CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m60525555PotassiumppmASTM D5185m20423FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Copper	ppm	ASTM D5185m	>50	2	<1	<1
Vanadium         ppm         ASTM D5185m         0         0         0           Cadmium         ppm         ASTM D5185m          <1	Tin	ppm	ASTM D5185m	>15	<1	<1	0
CadmiumppmASTM D5185m<1	Antimony	ppm	ASTM D5185m				
ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m000BariumppmASTM D5185m220284314MolybdenumppmASTM D5185m000ManganeseppmASTM D5185m000MagnesiumppmASTM D5185m100CalciumppmASTM D5185m100CalciumppmASTM D5185m199ZincppmASTM D5185m199ZincppmASTM D5185m522455532CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m25<111SodiumppmASTM D5185m20423FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Vanadium	ppm	ASTM D5185m		0	0	0
Boron         ppm         ASTM D5185m         0         0         0           Barium         ppm         ASTM D5185m         220         284         314           Molybdenum         ppm         ASTM D5185m         0         0         0           Manganese         ppm         ASTM D5185m         0         0         0           Magnesium         ppm         ASTM D5185m         1         0         0           Calcium         ppm         ASTM D5185m         1         0         0           Calcium         ppm         ASTM D5185m         1         4         <1           Phosphorus         ppm         ASTM D5185m         0         4         3           Sulfur         ppm         ASTM D5185m         522         455         532           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m<>25         <1         1         1           Sodium         ppm         ASTM D5185m         20         4         2         3           Potassium         ppm         ASTM D5185m<>20         4         2         3 <th>Cadmium</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th>&lt;1</th> <th>0</th> <th>0</th>	Cadmium	ppm	ASTM D5185m		<1	0	0
Barium         ppm         ASTM D5185m         220         284         314           Molybdenum         ppm         ASTM D5185m         0         0         0           Manganese         ppm         ASTM D5185m         1         0         0           Magnesium         ppm         ASTM D5185m         1         0         0           Calcium         ppm         ASTM D5185m         1         0         0           Calcium         ppm         ASTM D5185m         1         4         <1           Phosphorus         ppm         ASTM D5185m         1         9         9           Zinc         ppm         ASTM D5185m         0         4         3           Sulfur         ppm         ASTM D5185m         522         455         532           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m<>25         <1         1         1           Sodium         ppm         ASTM D5185m<>20         4         2         3           FLUID DEGRADATION         method         limit/base         current         history1         history2 </th <th>ADDITIVES</th> <th></th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         O         O         O           Manganese         ppm         ASTM D5185m         1         O         O         O           Magnesium         ppm         ASTM D5185m         1         O         O         O           Calcium         ppm         ASTM D5185m         1         O         O         O           Calcium         ppm         ASTM D5185m         1         4         <1           Phosphorus         ppm         ASTM D5185m         1         9         9           Zinc         ppm         ASTM D5185m         0         4         3           Sulfur         ppm         ASTM D5185m         522         455         532           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         <1         1         1           Sodium         ppm         ASTM D5185m         >20         4         2         3           FLUID DEGRADATION         method         limit/base         current         history1         history2	Boron	ppm	ASTM D5185m		0	0	0
Manganese         ppm         ASTM D5185m         1         0         0           Magnesium         ppm         ASTM D5185m         1         0         0           Calcium         ppm         ASTM D5185m         1         0         0           Calcium         ppm         ASTM D5185m         1         4         <1           Phosphorus         ppm         ASTM D5185m         1         9         9           Zinc         ppm         ASTM D5185m         0         4         3           Sulfur         ppm         ASTM D5185m         522         455         532           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         <1         1         1           Sodium         ppm         ASTM D5185m         >25         <1         1         1           Sodium         ppm         ASTM D5185m         >20         4         2         3           FLUID DEGRADATION         method         limit/base         current         history1         history2	Barium	ppm	ASTM D5185m		220	284	314
Magnesium         ppm         ASTM D5185m         1         0         0           Calcium         ppm         ASTM D5185m         1         4         <1	Molybdenum	ppm	ASTM D5185m		0	0	0
Calcium         ppm         ASTM D5185m         1         4         <1	Manganese	ppm	ASTM D5185m		1	0	0
Phosphorus         ppm         ASTM D5185m         1         9         9           Zinc         ppm         ASTM D5185m         0         4         3           Sulfur         ppm         ASTM D5185m         522         455         532           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         <1	Magnesium	ppm	ASTM D5185m		1	0	0
ZincppmASTM D5185m043SulfurppmASTM D5185m522455532CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>25<111SodiumppmASTM D5185m>2045255PotassiumppmASTM D5185m>20423FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Calcium	ppm	ASTM D5185m		1	4	<1
SulfurppmASTM D5185m522455532CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m<>25<111SodiumppmASTM D5185m605255PotassiumppmASTM D5185m>20423FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Phosphorus	ppm	ASTM D5185m		1	9	9
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m<>25<111SodiumppmASTM D5185m605255PotassiumppmASTM D5185m>20423FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Zinc	ppm	ASTM D5185m		0	4	3
Silicon         ppm         ASTM D5185m         >25         <1	Sulfur	ppm	ASTM D5185m		522	455	532
SodiumppmASTM D5185m605255PotassiumppmASTM D5185m>20423FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	CONTAMINANTS		method	limit/base	current	history1	history2
PotassiumppmASTM D5185m>20423FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Silicon	ppm	ASTM D5185m	>25	<1	1	1
PotassiumppmASTM D5185m>20423FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Sodium	ppm	ASTM D5185m		60	52	55
	Potassium		ASTM D5185m	>20	4		
Acid Number (AN)         mg KOH/g         ASTM D8045         0.33         0.23         0.22	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.33	0.23	0.22

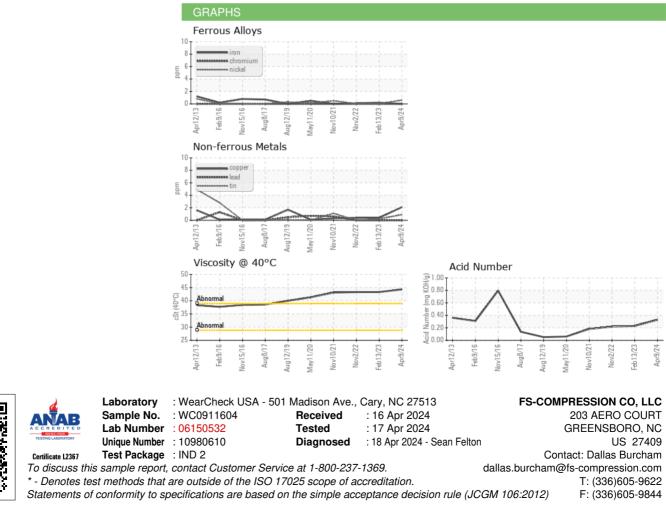


# **OIL ANALYSIS REPORT**





VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		44.3	43.3	43.3
SAMPLE IMAGES	5	method	limit/base	current	history1	history2
Color						
Bottom						



Contact/Location: Dallas Burcham - AIRGREWC