

### **OIL ANALYSIS REPORT**

#### Sample Rating Trend



# SULLAIR 003-102146 - LO PAREX

Compressor Fluid PG-32 (15 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.

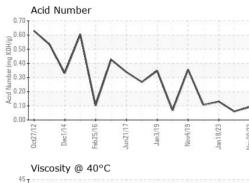
#### Fluid Condition

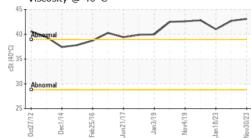
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION     method     limit/base     current     history1     history2       Sample Number     Client Info     WC0874240     WC0575206     WC071128       Sample Date     Client Info     12401     10969     10174       Oil Age     hrs     Client Info     2232     4124     3       Oil Changed     Client Info     2232     4124     3       Oil Changed     Client Info     Not Changd     Not Changd     Not Changd       Sample Status     Imit/base     Current     history1     history2       Water     WC Method     >0.1     NEG     NEG     NEG       WEAR METALS     method     imit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >50     0     0     0       Nickel     ppm     ASTM D5185m     >50     0     0     0       AstM D5185m     >25     0     0     0     0     0       AstM D5185m     >51     3     1			Oct2012 Dec	2014 Feb2016 Jun20	17 Jan2019 Nov2019 Jan20	23 Nov202:	
Sample Date     Client Info     30 Nov 2023     15 May 2023     18 Jan 2023       Machine Age     hrs     Client Info     12401     10969     10174       Oil Age     hrs     Client Info     12322     4124     3       Oil Changed     Client Info     Not Changd     Not Changd     Not Changd     Not Changd       Sample Status     Imit Not Changd     Not Changd     No Changd     No Changd     No Changd       Water     WC Method     >0.1     NEG     NEG     NEG       Wear METALS     method     imit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >50     0     0     0       Nickel     ppm     ASTM D5185m     >10     0     0     0       Aluminum     ppm     ASTM D5185m     >0     0     0     0       Aluminum     ppm     ASTM D5185m     >50     <1     1     0       Aluminum     ppm     ASTM D5185m     >50     <1     0     0	SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Machine Age     hrs     Client Info     12401     10969     10174       Oil Age     hrs     Client Info     2232     4124     3       Oil Changed     Client Info     Not Changd     Not Changd     Not Changd       Sample Status     Imit/base     current     history1     history2       Water     WC Method     >0.1     NEG     NEG     NEG       WEAR METALS     method     imit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >0     0     0     0       Nickel     ppm     ASTM D5185m     0     0     0     0       Silver     ppm     ASTM D5185m     >25     0     0     0       Copper     ppm     ASTM D5185m     >25     0     0     0       Copper     ppm     ASTM D5185m     >25     0     0     0       Copper     ppm     ASTM D5185m     >1          Vanadium     pp	Sample Number		Client Info		WC0874240	WC0575206	WC0771128
Oil Age hrs Client Info 2232 4124 3   Oil Changed Client Info Not Changd Not Changd Not Changd   Sample Status Client Info NORMAL Not Changd Not Changd   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 0 0   Nickel ppm ASTM D5185m <1 0 0   Silver ppm ASTM D5185m >25 0 0 0   Aluminum ppm ASTM D5185m >25 0 0 0   Itanium ppm ASTM D5185m >25 0 0 0   Autominum ppm ASTM D5185m >50 <1 1 0   Tin ppm ASTM D5185m >50 <1 0 0   Antimony ppm ASTM D5185m <1 0 0   Antimony ppm ASTM D5185m <1 0 0	Sample Date		Client Info		30 Nov 2023	15 May 2023	18 Jan 2023
Oil Changed Sample Status     Client Info     Not Changd NORMAL     Not Changd NORMAL     Not Changd NORMAL     Not Changd 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     0     0       Othomium     ppm     ASTM D5185m     210     0     0     0       Nickel     ppm     ASTM D5185m     25     0     0     0       Silver     ppm     ASTM D5185m     >25     0     0     0       Lead     ppm     ASTM D5185m     >25     0     0     0       Cadmium     ppm     ASTM D5185m     >15     3     1     1       Antimony     ppm     ASTM D5185m     0     0     0     0       Cadmium     ppm     ASTM D5185m     0	Machine Age	hrs	Client Info		12401	10969	10174
Sample Status     NORMAL     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     0     0       Chromium     ppm     ASTM D5185m     0     0     0     0       Nickel     ppm     ASTM D5185m     0     0     0     0       Silver     ppm     ASTM D5185m     0     0     0     0       Copper     ppm     ASTM D5185m     >25     0     0     0       Tin     ppm     ASTM D5185m     >25     0     0     0       Antimony     ppm     ASTM D5185m     >3     1     1     1       Antimony     ppm     ASTM D5185m     0     0     0     0       Cademiu	Oil Age	hrs	Client Info		2232	4124	3
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     0     0       Nickel     ppm     ASTM D5185m     <10     0     0     0       Nickel     ppm     ASTM D5185m     0     0     0     0       Silver     ppm     ASTM D5185m     >25     0     0     0       Lead     ppm     ASTM D5185m     >25     0     0     0       Cadmium     ppm     ASTM D5185m     >50     <1     <1     0       Tin     ppm     ASTM D5185m     >50     <1     <1     0     0       Cadmium     ppm     ASTM D5185m     >15     3     1     1     1       Neadium     ppm     ASTM D5185m     <1     0	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     0     0       Chromium     ppm     ASTM D5185m     >10     0     0     0       Nickel     ppm     ASTM D5185m     <1     0     0     0       Titanium     ppm     ASTM D5185m     0     0     0     0       Silver     ppm     ASTM D5185m     25     0     0     0       Aluminum     ppm     ASTM D5185m     >25     0     0     0       Lead     ppm     ASTM D5185m     >50     1     1     1       Antimony     ppm     ASTM D5185m     >50     1     0     0       Cadmium     ppm     ASTM D5185m     <1     1     1     1       Antimony     ppm     ASTM D5185m     <0     0     0     0	Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >50     0     0     0       Nickel     ppm     ASTM D5185m     <1     0     0     0       Nickel     ppm     ASTM D5185m     <1     0     0     0       Silver     ppm     ASTM D5185m     0     0     0     0       Aluminum     ppm     ASTM D5185m     >25     0     0     0       Lead     ppm     ASTM D5185m     >25     0     0     0       Lead     ppm     ASTM D5185m     >50     <1     <1     0       Tin     ppm     ASTM D5185m     <1     0     0     0       Cadmium     ppm     ASTM D5185m     <1     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       Boron     ppm     ASTM D5185m     0     0     0     0	CONTAMINATION	N	method	limit/base	current	history1	history2
Iron     ppm     ASTM D5185m     >50     0     0     0       Chromium     ppm     ASTM D5185m     <1     0     0       Nickel     ppm     ASTM D5185m     <1     0     0       Silver     ppm     ASTM D5185m     0     0     0       Aluminum     ppm     ASTM D5185m     25     0     0     0       Lead     ppm     ASTM D5185m     >25     0     0     <1       Copper     ppm     ASTM D5185m     >50     <1     <1     0       Tin     ppm     ASTM D5185m     >50     <1     <1     0       Antimony     ppm     ASTM D5185m     <5     3     1     1       Vanadium     ppm     ASTM D5185m     <1     0     0     0       Cadmium     ppm     ASTM D5185m     <0     0     0     1       Barium     ppm     ASTM D5185m     0     0     0     0       Maganesium     ppm	Water		WC Method	>0.1	NEG	NEG	NEG
Drom     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     0     0     0       Lead     ppm     ASTM D5185m     >25     0     0     <11       Copper     ppm     ASTM D5185m     >50     <1     <1     0       Tin     ppm     ASTM D5185m     >50     <1     <1     0     0       Cadmium     ppm     ASTM D5185m     <1     0     0     0       Cadmium     ppm     ASTM D5185m     <1     0     0     0     0       Boron     ppm     ASTM D5185m     0     0     0     0       Magnesium     ppm     ASTM D5185m     0     0     0     0       Magnesium </th <th>WEAR METALS</th> <th></th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	WEAR METALS		method	limit/base	current	history1	history2
Nickel     ppm     ASTM D5185m     <1     0     0       Titanium     ppm     ASTM D5185m     0     0     0     0       Silver     ppm     ASTM D5185m     0     0     0     0       Auminum     ppm     ASTM D5185m     >25     0     0     0       Lead     ppm     ASTM D5185m     >25     0     0     <1	Iron	ppm	ASTM D5185m	>50	0	0	0
Titanium     ppm     ASTM D5185m     0     0     0       Silver     ppm     ASTM D5185m     0     0     0       Aluminum     ppm     ASTM D5185m     >25     0     0     0       Lead     ppm     ASTM D5185m     >25     0     0     <1       Copper     ppm     ASTM D5185m     >50     <1     <1     0       Tin     ppm     ASTM D5185m     >50     <1     <1     0       Antimony     ppm     ASTM D5185m     >50     <1     0     0       Cadmium     ppm     ASTM D5185m     <1     0     0     0       Cadmium     ppm     ASTM D5185m     <0     0     0     0       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     0     0     0       Molybdenum     ppm     ASTM D5185m     0     <1     <1     2       <	Chromium	ppm	ASTM D5185m	>10	0	0	0
Silver     ppm     ASTM D5185m     0     0     0       Aluminum     ppm     ASTM D5185m     >25     0     0     0       Lead     ppm     ASTM D5185m     >25     0     0     <1	Nickel	ppm	ASTM D5185m		<1	0	0
Aluminum     ppm     ASTM D5185m     >25     0     0     0       Lead     ppm     ASTM D5185m     >25     0     0     <1       Copper     ppm     ASTM D5185m     >50     <1     <1     0       Tin     ppm     ASTM D5185m     >15     3     1     1       Antimony     ppm     ASTM D5185m          Vanadium     ppm     ASTM D5185m     <1     0     0       Cadmium     ppm     ASTM D5185m     <1     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     1       Barium     ppm     ASTM D5185m     0     0     0     0       Barium     ppm     ASTM D5185m     0     0     0     0       Magaenese     ppm     ASTM D5185m     0     <1     <1     2       Calcium <td< th=""><th>Titanium</th><th>ppm</th><th>ASTM D5185m</th><th></th><th>0</th><th>0</th><th>0</th></td<>	Titanium	ppm	ASTM D5185m		0	0	0
Lead     ppm     ASTM D5185m     >25     0     0     <1	Silver	ppm	ASTM D5185m		0	0	0
Copper     ppm     ASTM D5185m     >50     <1	Aluminum	ppm	ASTM D5185m	>25	0	0	0
Tin     ppm     ASTM D5185m     >15     3     1     1       Antimony     ppm     ASTM D5185m          Vanadium     ppm     ASTM D5185m         Vanadium     ppm     ASTM D5185m     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     0     0     11       Barium     ppm     ASTM D5185m     0     0     0     0       Molybdenum     ppm     ASTM D5185m     0     0     0     0       Magnesium     ppm     ASTM D5185m     0     <11	Lead	ppm	ASTM D5185m	>25	0	0	<1
AntimonyppmASTM D5185mVanadiumppmASTM D5185m<100CadmiumppmASTM D5185m000ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m001BariumppmASTM D5185m001BariumppmASTM D5185m000MaganeseppmASTM D5185m000MagnesiumppmASTM D5185m000MagnesiumppmASTM D5185m0<11<1CalciumppmASTM D5185m6112PhosphorusppmASTM D5185m6112SulfurppmASTM D5185m463561691CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m2516175SodiumppmASTM D5185m>2043<1FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Copper	ppm	ASTM D5185m	>50	<1	<1	0
VanadiumppmASTM D5185m<1	Tin	ppm	ASTM D5185m	>15	3	1	1
CadmiumppmASTM D5185m000ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m001BariumppmASTM D5185m000BariumppmASTM D5185m000ManganeseppmASTM D5185m000ManganeseppmASTM D5185m000MagnesiumppmASTM D5185m0<1<1CalciumppmASTM D5185m61122PhosphorusppmASTM D5185m611122ZincppmASTM D5185m463561691CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m645221PotassiumppmASTM D5185m2043<1FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Antimony	ppm	ASTM D5185m				
ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m001BariumppmASTM D5185m171418444MolybdenumppmASTM D5185m000ManganeseppmASTM D5185m000MagnesiumppmASTM D5185m0<1<1CalciumppmASTM D5185m0<1<1CalciumppmASTM D5185m61122PhosphorusppmASTM D5185m61122ZincppmASTM D5185m463561691CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m2516175SodiumppmASTM D5185m>2043<1FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Vanadium	ppm	ASTM D5185m		<1	0	0
Boron     ppm     ASTM D5185m     0     0     1       Barium     ppm     ASTM D5185m     171     418     444       Molybdenum     ppm     ASTM D5185m     0     0     0       Manganese     ppm     ASTM D5185m     0     0     0     0       Magnesium     ppm     ASTM D5185m     0     <11     <1     <1       Calcium     ppm     ASTM D5185m     0     <11     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     1	Cadmium	ppm	ASTM D5185m		0	0	0
Barium     ppm     ASTM D5185m     171     418     444       Molybdenum     ppm     ASTM D5185m     0     0     0       Manganese     ppm     ASTM D5185m     0     0     0       Magnesium     ppm     ASTM D5185m     0     0     0       Magnesium     ppm     ASTM D5185m     0     <11     <1       Calcium     ppm     ASTM D5185m     0     <11     <1       Calcium     ppm     ASTM D5185m     6     11     2     2       Phosphorus     ppm     ASTM D5185m     6     11     2     2       Zinc     ppm     ASTM D5185m     463     561     691       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m<>25     16     17     5       Sodium     ppm     ASTM D5185m<>20     4     3     <1       Potassium     ppm     ASTM D5185m<>20     4     3	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum     ppm     ASTM D5185m     O     O     O       Manganese     ppm     ASTM D5185m     O     O     O     O       Magnesium     ppm     ASTM D5185m     O     <1     <1       Calcium     ppm     ASTM D5185m     O     <1     <1       Calcium     ppm     ASTM D5185m     I     2     2       Phosphorus     ppm     ASTM D5185m     6     11     2     2       Zinc     ppm     ASTM D5185m     <1     0     2     2       Sulfur     ppm     ASTM D5185m     <1     0     2     2       Sulfur     ppm     ASTM D5185m     <1     0     2     2       Sulfur     ppm     ASTM D5185m     <25     16     17     5       Sodium     ppm     ASTM D5185m     >20     4     3     <1       FLUID DEGRADATION     method     limit/base     current     history1     history2	Boron	ppm	ASTM D5185m		0	0	1
Manganese     ppm     ASTM D5185m     0     0     0       Magnesium     ppm     ASTM D5185m     0     <1     <1       Calcium     ppm     ASTM D5185m     1     2     2       Phosphorus     ppm     ASTM D5185m     6     11     2     2       Zinc     ppm     ASTM D5185m     6     11     2     2       Sulfur     ppm     ASTM D5185m     6     11     2     2       Sulfur     ppm     ASTM D5185m     <1     0     2     2       Sulfur     ppm     ASTM D5185m     <1     0     2     2       Sulfur     ppm     ASTM D5185m     <463     561     691     2       Solicon     ppm     ASTM D5185m<>25     16     17     5     5       Sodium     ppm     ASTM D5185m     >20     4     3     <1       FLUID DEGRADATION     method     limit/base     current     history1     history2	Barium	ppm	ASTM D5185m		171	418	444
Magnesium     ppm     ASTM D5185m     0     <1	Molybdenum	ppm	ASTM D5185m		0	0	0
Calcium     ppm     ASTM D5185m     1     2     2       Phosphorus     ppm     ASTM D5185m     6     11     2     2       Zinc     ppm     ASTM D5185m     6     11     2     2       Zinc     ppm     ASTM D5185m     <1	Manganese	ppm	ASTM D5185m		0	0	0
Phosphorus     ppm     ASTM D5185m     6     11     2       Zinc     ppm     ASTM D5185m     <1	Magnesium	ppm	ASTM D5185m		0	<1	<1
ZincppmASTM D5185m<1	Calcium	ppm	ASTM D5185m		1	2	2
SulfurppmASTM D5185m463561691CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m<>2516175SodiumppmASTM D5185m645221PotassiumppmASTM D5185m>2043<1FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Phosphorus	ppm	ASTM D5185m		6	11	2
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m<>2516175SodiumppmASTM D5185m645221PotassiumppmASTM D5185m>2043<1FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Zinc	ppm	ASTM D5185m		<1	0	2
Silicon     ppm     ASTM D5185m     >25     16     17     5       Sodium     ppm     ASTM D5185m     64     52     21       Potassium     ppm     ASTM D5185m     >20     4     3     <1	Sulfur	ppm	ASTM D5185m		463	561	691
SodiumppmASTM D5185m645221PotassiumppmASTM D5185m>2043<1FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	CONTAMINANTS	;	method	limit/base	current	history1	history2
Potassium     ppm     ASTM D5185m     >20     4     3     <1	Silicon	ppm	ASTM D5185m	>25	16	17	5
FLUID DEGRADATION method limit/base current history1 history2	Sodium	ppm	ASTM D5185m		64	52	21
	Potassium	ppm	ASTM D5185m	>20	4	3	<1
Acid Number (AN)     mg KOH/g     ASTM D8045     0.092     0.06     0.13	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.092	0.06	0.13



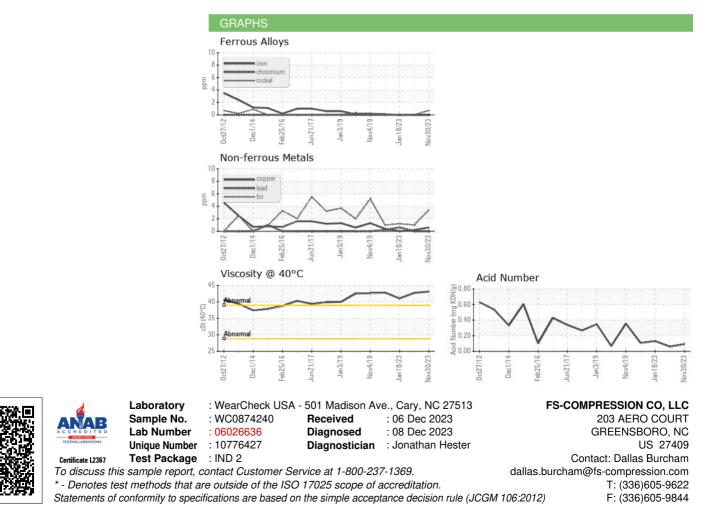
## **OIL ANALYSIS REPORT**





VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	LIGHT	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		43.1	42.7	41.0
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color					3	
Bottom						

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Contact/Location: Dallas Burcham - AIRGREWC