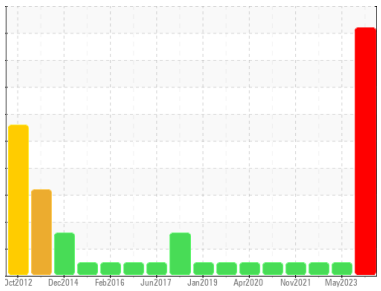
# PROBLEM SUMMARY

Sample Rating Trend

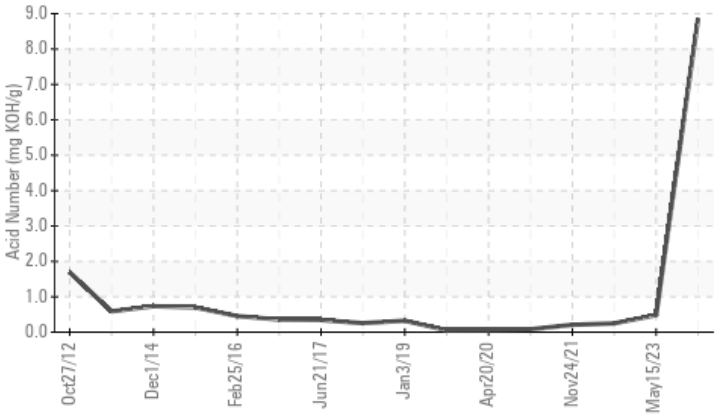



**WEAR**

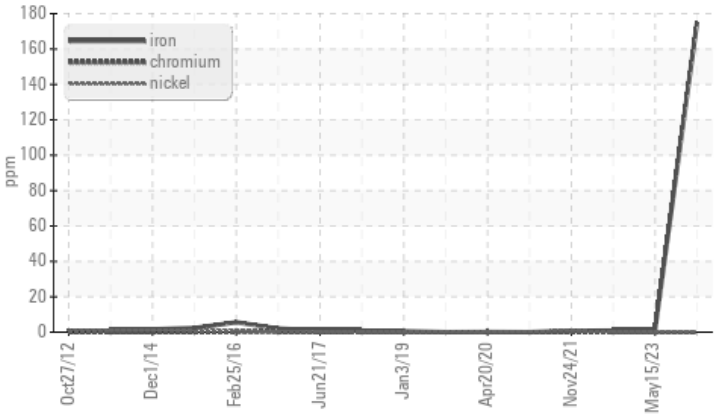
Machine Id
## SULLAIR 201005180005 - LOPAREX LLC
Component
**Compressor**
Fluid
**PG 32 (10 GAL)**

## COMPONENT CONDITION SUMMARY

▲ Acid Number




▲ Ferrous Alloys




## RECOMMENDATION

The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

| | | | | SEVERE | NORMAL | NORMAL |
|---|---|---|---|---|---|---|
| Sample Status | | | | | | |
| Iron | ppm | ASTM D5185m | >50 | ▲ 175 | 2 | <1 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | ▲ 8.857 | 0.48 | 0.25 |


**Customer Id:** AIRGREWC
**Sample No.:** WC06197836
**Lab Number:** 06197836
**Test Package:** IND 2

*To manage this report scan the QR code*

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jhester@wearcheckusa.com

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

## RECOMMENDED ACTIONS

| Action | Status | Date | Done By | Description |
|---|---|---|---|---|
| Inspect Wear Source | --- | --- | ? | We advise that you inspect for the source(s) of wear. |
| Resample | --- | --- | ? | We recommend an early resample to monitor this condition. |

## HISTORICAL DIAGNOSIS

NORMAL

**15 May 2023 Diag: Don Baldridge**
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the component. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

NORMAL

**19 Jan 2023 Diag: Jonathan Hester**
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the component. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

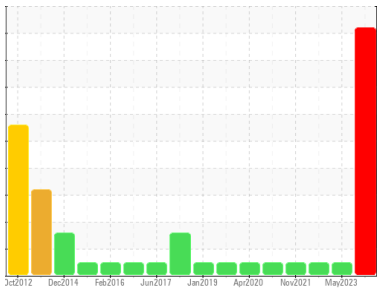
NORMAL

**24 Nov 2021 Diag: Don Baldridge**
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

# OIL ANALYSIS REPORT

Sample Rating Trend




**WEAR**

Machine Id
## SULLAIR 201005180005 - LOPAREX LLC
Component
**Compressor**
Fluid
**PG 32 (10 GAL)**

## DIAGNOSIS

**▲ Recommendation**
The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

**▲ Wear**
The iron level is severe.

**Contamination**
There is no indication of any contamination in the oil.

**▲ Fluid Condition**
The AN level is well above the recommended limit. TAN level indicates possible presence of varnish. The oil is no longer serviceable.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **WC06197836** | WC0696992 | WC0771121 |
| Sample Date | | Client Info | | **29 May 2024** | 15 May 2023 | 19 Jan 2023 |
| Machine Age | hrs | Client Info | | **54527** | 47729 | 46154 |
| Oil Age | hrs | Client Info | | **4000** | 1500 | 6828 |
| Oil Changed | | Client Info | | **Changed** | Not Changd | Not Changd |
| Sample Status | | | | **SEVERE** | NORMAL | NORMAL |

| CONTAMINATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Water | | WC Method | >0.1 | **NEG** | NEG | NEG |

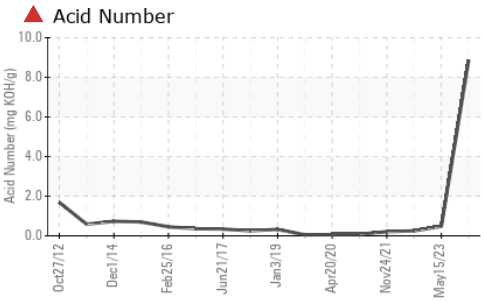
| WEAR METALS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Iron | ppm | ASTM D5185m | >50 | ▲ **175** | 2 | <1 |
| Chromium | ppm | ASTM D5185m | >10 | **0** | 0 | 0 |
| Nickel | ppm | ASTM D5185m | | **0** | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | **0** | 0 | 0 |
| Silver | ppm | ASTM D5185m | | **0** | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | **0** | 0 | <1 |
| Lead | ppm | ASTM D5185m | >25 | **0** | 0 | <1 |
| Copper | ppm | ASTM D5185m | >50 | **3** | 2 | 2 |
| Tin | ppm | ASTM D5185m | >15 | **1** | 6 | 7 |
| Antimony | ppm | ASTM D5185m | | **---** | --- | --- |
| Vanadium | ppm | ASTM D5185m | | **0** | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | **0** | 0 | 0 |

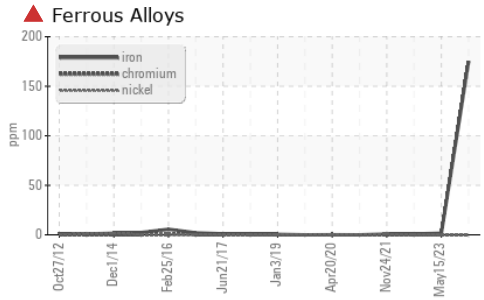
| ADDITIVES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Boron | ppm | ASTM D5185m | | **0** | 0 | 0 |
| Barium | ppm | ASTM D5185m | | **179** | 264 | 268 |
| Molybdenum | ppm | ASTM D5185m | | **0** | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | **<1** | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | | **<1** | <1 | <1 |
| Calcium | ppm | ASTM D5185m | | **0** | 2 | 2 |
| Phosphorus | ppm | ASTM D5185m | | **8** | 5 | <1 |
| Zinc | ppm | ASTM D5185m | | **0** | 12 | 16 |
| Sulfur | ppm | ASTM D5185m | | **396** | 463 | 559 |

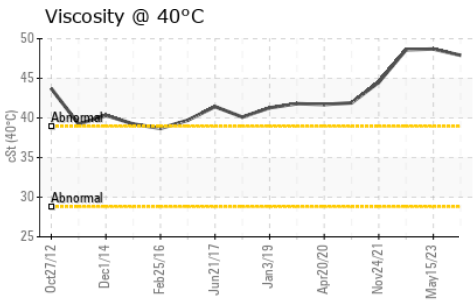
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185m | >25 | **9** | 22 | 22 |
| Sodium | ppm | ASTM D5185m | | **60** | 98 | 103 |
| Potassium | ppm | ASTM D5185m | >20 | **2** | 4 | 3 |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | ▲ **8.857** | 0.48 | 0.25 |

# OIL ANALYSIS REPORT

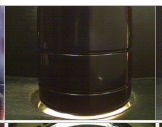
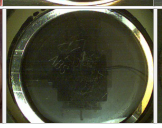
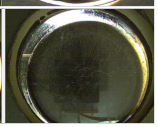


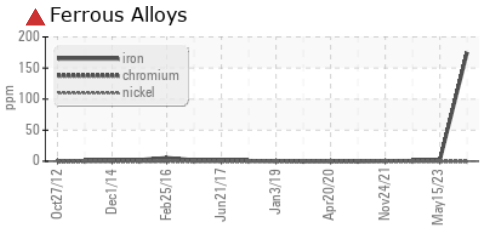



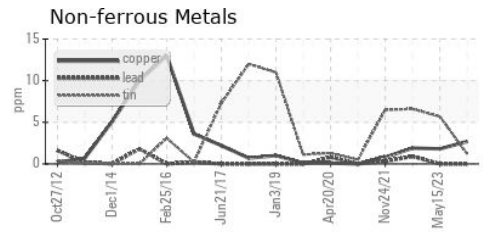

| VISUAL | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| White Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| 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 |

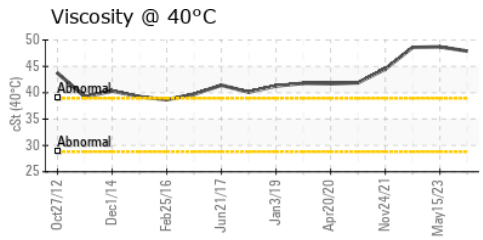
| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Visc @ 40°C | cSt | ASTM D445 | | **47.9** | 48.7 | 48.6 |

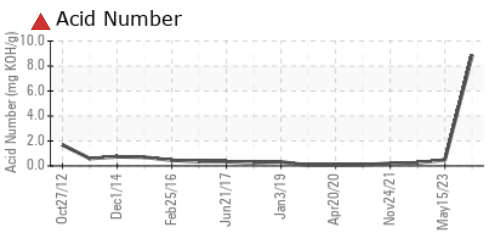
| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|
| Color | | |  |  |  |
| Bottom | | |  |  |  |

## GRAPHS




**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : WC06197836
**Lab Number** : 06197836
**Unique Number** : 11059959
**Test Package** : IND 2

**Received** : 03 Jun 2024
**Tested** : 05 Jun 2024
**Diagnosed** : 05 Jun 2024 - Jonathan Hester

Certificate L2367

*To discuss this sample report, contact Customer Service at 1-800-237-1369.*
** - Denotes test methods that are outside of the ISO 17025 scope of accreditation.*
*Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)*

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