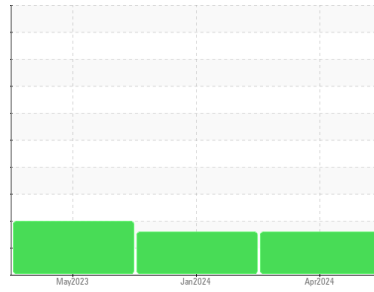


OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area

MIX ROOM A [98923663]

Machine Id

KR-GR-003472 - TRANSFER HOPPER (S/N MIX A - 11535133)

Component

Gearbox

Fluid

PETRO CANADA 220 (--- QTS)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. (Customer Sample Comment: 98923663)

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 acceptable for the time in service.

SAMPLE INFORMATION

| method | limit/base | current | history1 | history2 |
|---------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | PCA0055961 | PCA0114838 | PCA0073069 |
| Sample Date | Client Info | 17 Apr 2024 | 02 Jan 2024 | 02 May 2023 |
| Machine Age | hrs | 0 | 0 | 0 |
| Oil Age | hrs | 0 | 0 | 0 |
| Oil Changed | Client Info | Not Chngd | N/A | N/A |
| Sample Status | | ABNORMAL | ABNORMAL | ABNORMAL |

CONTAMINATION

| method | limit/base | current | history1 | history2 |
|--------|----------------|------------|----------|----------|
| Water | WC Method >0.2 | NEG | NEG | NEG |

WEAR METALS

| method | limit/base | current | history1 | history2 |
|----------|----------------------|--------------|----------|----------|
| Iron | ppm ASTM D5185m >200 | 34 | 35 | 132 |
| Chromium | ppm ASTM D5185m >15 | 0 | <1 | 4 |
| Nickel | ppm ASTM D5185m >15 | 0 | 0 | 2 |
| Titanium | ppm ASTM D5185m | <1 | <1 | 0 |
| Silver | ppm ASTM D5185m | 0 | 0 | 0 |
| Aluminum | ppm ASTM D5185m >25 | 0 | 1 | 1 |
| Lead | ppm ASTM D5185m >100 | 0 | 0 | 0 |
| Copper | ppm ASTM D5185m >200 | <1 | <1 | 0 |
| Tin | ppm ASTM D5185m >25 | 0 | <1 | 0 |
| Vanadium | ppm ASTM D5185m | <1 | 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 | 0 | 11 | 0 |
| Molybdenum | ppm ASTM D5185m | 0 | <1 | 18 |
| Manganese | ppm ASTM D5185m | <1 | 0 | 2 |
| Magnesium | ppm ASTM D5185m | <1 | 0 | 0 |
| Calcium | ppm ASTM D5185m | 2 | 2 | 5 |
| Phosphorus | ppm ASTM D5185m | 356 | 394 | 647 |
| Zinc | ppm ASTM D5185m | 4 | 3 | 0 |
| Sulfur | ppm ASTM D5185m | 2551 | 2280 | 1760 |

CONTAMINANTS

| method | limit/base | current | history1 | history2 |
|-----------|---------------------|--------------|----------|----------|
| Silicon | ppm ASTM D5185m >50 | 3 | 2 | 18 |
| Sodium | ppm ASTM D5185m | <1 | 0 | <1 |
| Potassium | ppm ASTM D5185m >20 | <1 | 2 | 1 |

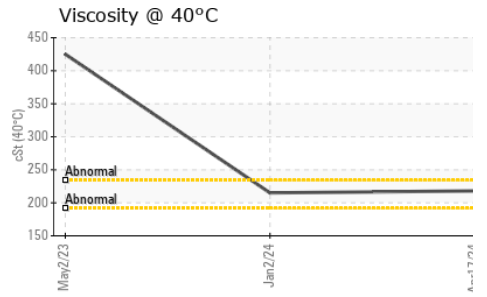
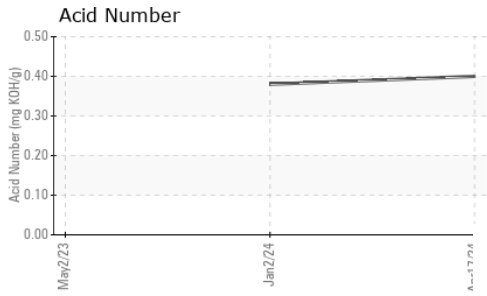
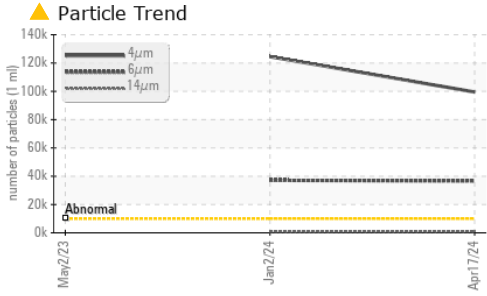
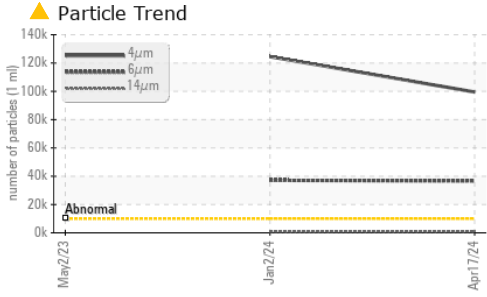
FLUID CLEANLINESS

| method | limit/base | current | history1 | history2 |
|-----------------|------------------------|-------------------|------------|----------|
| Particles >4µm | ASTM D7647 >10000 | ▲ 99484 | ▲ 124507 | --- |
| Particles >6µm | ASTM D7647 >2500 | ▲ 36727 | ▲ 37096 | --- |
| Particles >14µm | ASTM D7647 >640 | ▲ 789 | ● 686 | --- |
| Particles >21µm | ASTM D7647 >160 | 105 | 99 | --- |
| Particles >38µm | ASTM D7647 >40 | 2 | 1 | --- |
| Particles >71µm | ASTM D7647 >10 | 1 | 0 | --- |
| Oil Cleanliness | ISO 4406 (c) >20/18/16 | ▲ 24/22/17 | ▲ 24/22/17 | --- |

FLUID DEGRADATION

| method | limit/base | current | history1 | history2 |
|------------------|---------------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g ASTM D8045 | 0.40 | 0.38 | --- |

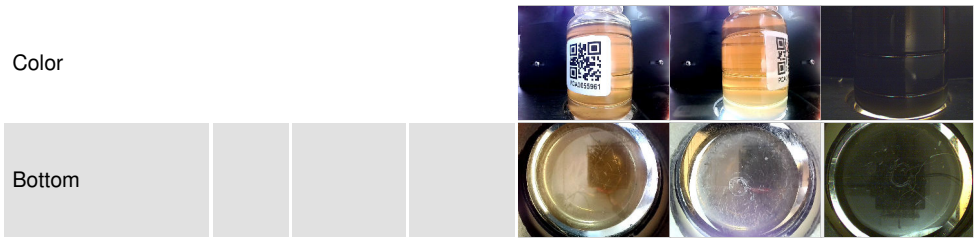
OIL ANALYSIS REPORT



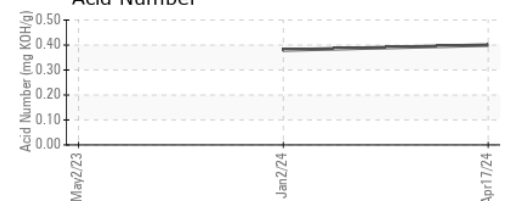
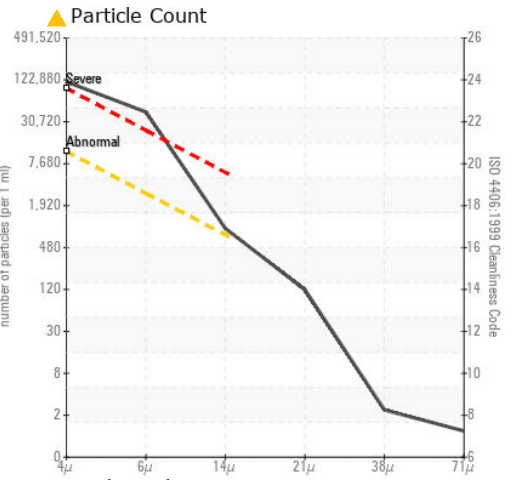
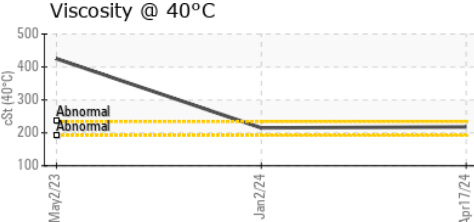
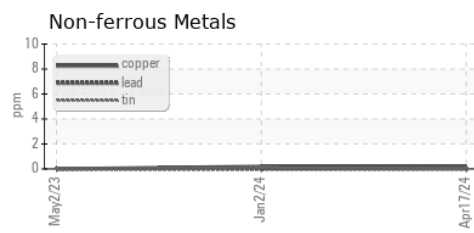
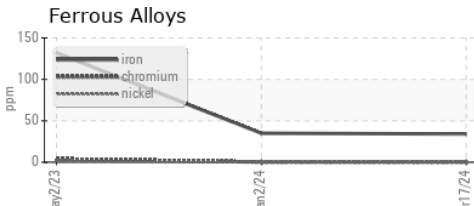
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | MODER |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | 0.2% |
| Free Water | scalar | *Visual | | NEG | ▲ 1.0 |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 218 | 215 | ● 425 |

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



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0055961 **Received** : 22 Apr 2024
Lab Number : 06155885 **Tested** : 23 Apr 2024
Unique Number : 10991308 **Diagnosed** : 24 Apr 2024 - Don Baldrige
Test Package : IND 2 (Additional Tests: PrtCount)

KraftHeinz - Kirksville - Plant 8333 PCA
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 KIRKSVILLE, MO
 US 63501
 Contact: WALLACE WARD
 wallace.ward@kraftheinzcompany.com
 T: (660)627-1031
 F: (660)627-5887

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)