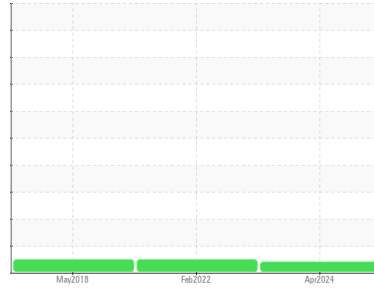


OIL ANALYSIS REPORT

Sample Rating Trend



VIS DEBRIS



Area
K5 CONSTRUCTION CORPORATION - HODGKINS IL
 Machine Id
2028
 Component
Rear Gearbox
 Fluid
LEAHY WOLF SYNMASTER 80W140 (1 GAL)

DIAGNOSIS

▲ Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|--------------------|-------------|-------------|------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | | PCA0122093 | LW0004323 | LWI-K94660 |
| Sample Date | Client Info | | | 19 Apr 2024 | 11 Feb 2022 | 01 May 2018 |
| Machine Age | hrs | Client Info | | 5847 | 5818 | 5331 |
| Oil Age | hrs | Client Info | | 29 | 395 | 1819 |
| Oil Changed | Client Info | | | Changed | Changed | Changed |
| Sample Status | | | | ABNORMAL | NORMAL | NORMAL |

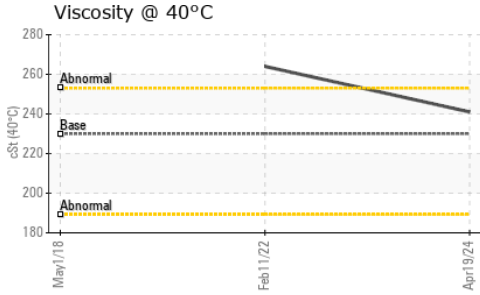
| CONTAMINATION | | method | limit/base | current | history1 | history2 |
|---------------|-----------|--------|------------|------------|----------|----------|
| Water | WC Method | | >0.2 | NEG | NEG | NEG |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m | >200 | 42 | 36 | 57 |
| Chromium | ppm | ASTM D5185m | >10 | <1 | <1 | 0 |
| Nickel | ppm | ASTM D5185m | >10 | 1 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | 2 | <1 | 1 |
| Lead | ppm | ASTM D5185m | >50 | 1 | <1 | 1 |
| Copper | ppm | ASTM D5185m | >200 | 3 | 6 | 15 |
| Tin | ppm | ASTM D5185m | >10 | 1 | <1 | 0 |
| Antimony | ppm | ASTM D5185m | >5 | --- | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | <1 | 0 | 0 |

| ADDITIVES | | method | limit/base | current | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m | 202 | 262 | 226 | 209 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 1 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | 1 | <1 | 0 |
| Magnesium | ppm | ASTM D5185m | | 1 | <1 | 3 |
| Calcium | ppm | ASTM D5185m | | 9 | 2 | 6 |
| Phosphorus | ppm | ASTM D5185m | 1209 | 1251 | 1273 | 1199 |
| Zinc | ppm | ASTM D5185m | | 6 | 0 | 11 |
| Sulfur | ppm | ASTM D5185m | 20439 | 26197 | 20375 | --- |
| Lithium | ppm | ASTM D5185m | | --- | --- | 0 |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|--------------|-----|-------------|------------|-----------|----------|----------|
| Silicon | ppm | ASTM D5185m | >50 | 10 | 7 | 11 |
| Sodium | ppm | ASTM D5185m | | 0 | 2 | 3 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 0 | 1 |

OIL ANALYSIS REPORT



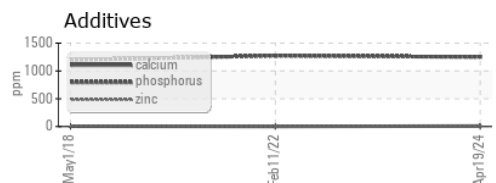
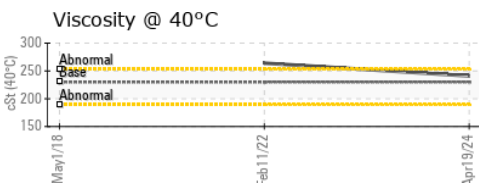
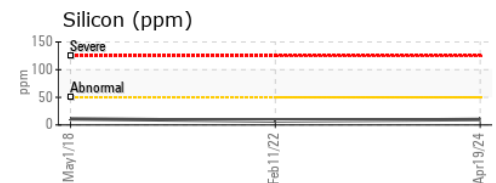
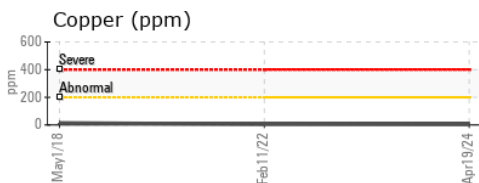
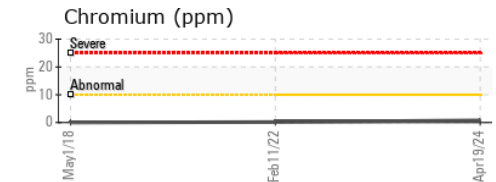
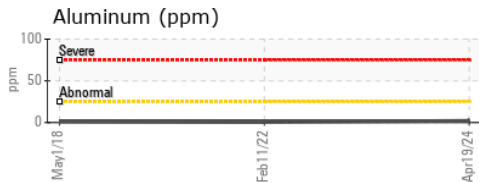
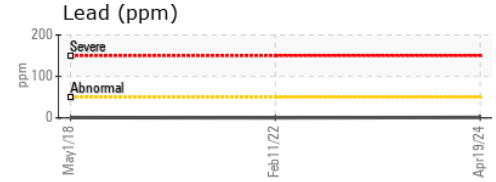
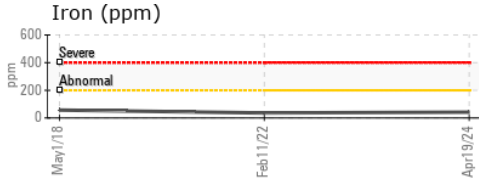
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | MODER | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- |
| Precipitate | scalar | *Visual | NONE | NONE |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

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 230 | 241 | 264 |

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

| | | | | | | |
|--------|--|--|--|----------|----------|----------|
| Color | | | | no image | no image | no image |
| Bottom | | | | no image | no image | no image |

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0122093 **Received** : 24 Apr 2024
Lab Number : 06159939 **Tested** : 25 Apr 2024
Unique Number : 10995362 **Diagnosed** : 26 Apr 2024 - Don Baldrige
Test Package : MOB 1

K5 CONSTRUCTION CORPORATION
 6301 S EAST AVENUE
 HODGKINS, IL
 US 60525
 Contact: FRANCISCO MUNOZ
 francisco@k-five.net

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)