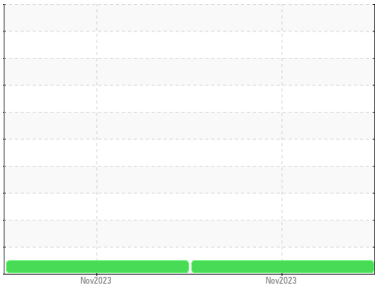
# OIL ANALYSIS REPORT

Sample Rating Trend




NORMAL

Machine Id
**22-E-6145**
Component
**Port Sterntube**
Fluid
**{not provided} (--- GAL)**

## DIAGNOSIS

**Recommendation**
Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

**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 | | **PP** | PP | --- |
| Sample Date | | Client Info | | **27 Nov 2023** | 14 Nov 2023 | --- |
| Machine Age | hrs | Client Info | | **0** | 0 | --- |
| Oil Age | hrs | Client Info | | **0** | 0 | --- |
| Oil Changed | | Client Info | | **N/A** | N/A | --- |
| Sample Status | | | | **NORMAL** | NORMAL | --- |

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

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| PQ | | ASTM D8184* | | **0** | 0 | --- |
| Iron | ppm | ASTM D5185(m) | >15 | **4** | 4 | --- |
| Chromium | ppm | ASTM D5185(m) | >2 | **0** | 0 | --- |
| Nickel | ppm | ASTM D5185(m) | >2 | **0** | 0 | --- |
| Titanium | ppm | ASTM D5185(m) | >8 | **0** | 0 | --- |
| Silver | ppm | ASTM D5185(m) | | **0** | <1 | --- |
| Aluminum | ppm | ASTM D5185(m) | >4 | **2** | 1 | --- |
| Lead | ppm | ASTM D5185(m) | >15 | **4** | 4 | --- |
| Copper | ppm | ASTM D5185(m) | >25 | **5** | 5 | --- |
| Tin | ppm | ASTM D5185(m) | >10 | **5** | 6 | --- |
| Antimony | ppm | ASTM D5185(m) | | **<1** | <1 | --- |
| Vanadium | ppm | ASTM D5185(m) | | **0** | 0 | --- |
| Beryllium | ppm | ASTM D5185(m) | | **0** | 0 | --- |
| Cadmium | ppm | ASTM D5185(m) | | **0** | 0 | --- |

| ADDITIVES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Boron | ppm | ASTM D5185(m) | | **<1** | <1 | --- |
| Barium | ppm | ASTM D5185(m) | | **0** | <1 | --- |
| Molybdenum | ppm | ASTM D5185(m) | | **<1** | <1 | --- |
| Manganese | ppm | ASTM D5185(m) | | **0** | 0 | --- |
| Magnesium | ppm | ASTM D5185(m) | | **17** | 18 | --- |
| Calcium | ppm | ASTM D5185(m) | | **6196** | 6374 | --- |
| Phosphorus | ppm | ASTM D5185(m) | | **215** | 215 | --- |
| Zinc | ppm | ASTM D5185(m) | | **355** | 361 | --- |
| Sulfur | ppm | ASTM D5185(m) | | **6425** | 6213 | --- |
| Lithium | ppm | ASTM D5185(m) | | **1** | 1 | --- |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185(m) | >25 | **9** | 6 | --- |
| Sodium | ppm | ASTM D5185(m) | | **11** | 9 | --- |
| Potassium | ppm | ASTM D5185(m) | >20 | **1** | 0 | --- |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Acid Number (AN) | mg KOH/g | ASTM D974* | | **1.35** | 0.19 | --- |

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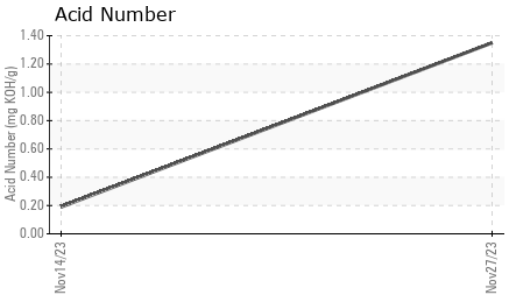
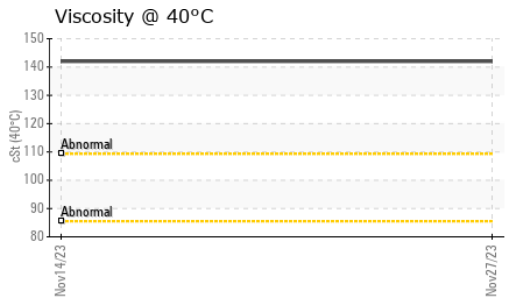
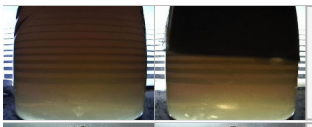


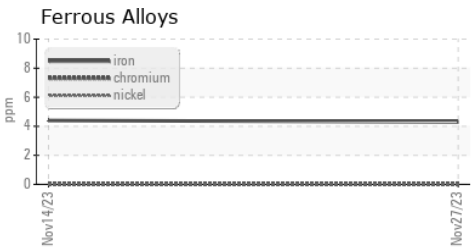


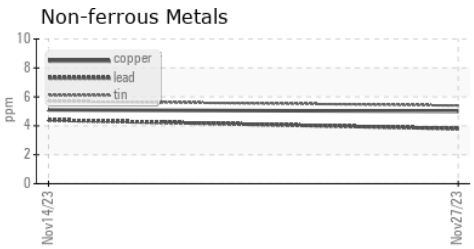
| VISUAL | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| White Metal | scalar | Visual* | NONE | **NONE** | NONE | --- |
| Yellow Metal | scalar | Visual* | NONE | **NONE** | NONE | --- |
| Precipitate | scalar | Visual* | NONE | **NONE** | NONE | --- |
| Silt | scalar | Visual* | NONE | **NONE** | NONE | --- |
| Debris | scalar | Visual* | NONE | **NONE** | VLITE | --- |
| Sand/Dirt | scalar | Visual* | NONE | **NONE** | NONE | --- |
| Appearance | scalar | Visual* | NORML | **NORML** | NORML | --- |
| Odor | scalar | Visual* | NORML | **NORML** | NORML | --- |
| Emulsified Water | scalar | Visual* | >0.1 | **NEG** | NEG | --- |
| Free Water | scalar | Visual* | | **NEG** | NEG | --- |

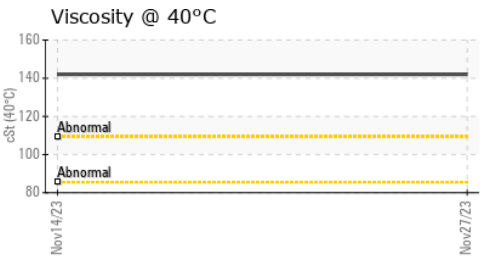
| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Visc @ 40°C | cSt | ASTM D7279(m) | | **142** | 142 | --- |

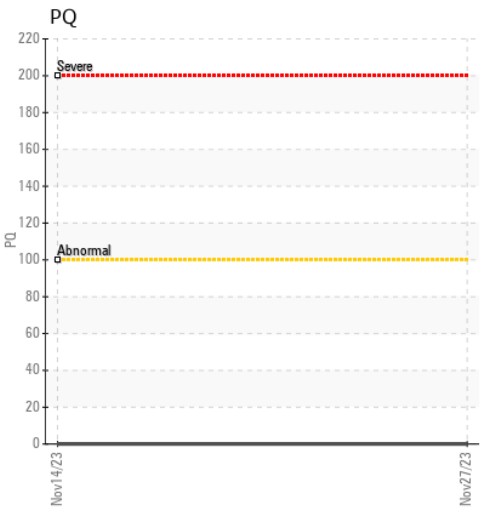
| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|
| Color | | |  | | *no image* |
| Bottom | | |  | | *no image* |

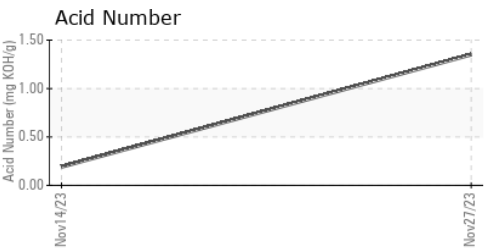
## GRAPHS




CALA Testing Accreditation No. 1005078
ISO 17025:2017 Accredited Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **HUSKY SEA ROSE /AKER SOLUTIONS**
**Sample No.** : PP **Recieved** : 09 Jan 2024
**Lab Number** : 02607615 **Diagnosed** : 10 Jan 2024
**Unique Number** : 5708701 **Diagnostician** : Wes Davis
**Test Package** : IND 2 ( Additional Tests: TAN Man )

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*To discuss this sample report, contact Customer Service at 1-800-268-2131.*
*Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.*
*Validity of results and interpretation are based on the sample and information as supplied.*