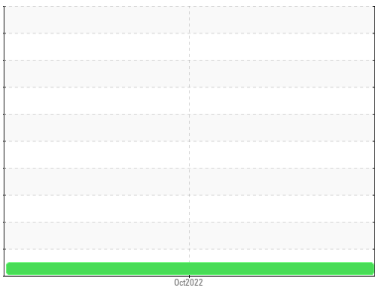
# OIL ANALYSIS REPORT

Sample Rating Trend




NORMAL

Machine Id
## PEGASUS 805 - BATCH 57539
Component
**New (Unused) Oil**
Fluid
**{not provided} (--- GAL)**

## DIAGNOSIS

**Recommendation**
This is a baseline read-out on the submitted sample.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **USP0012874** | --- | --- |
| Sample Date | | Client Info | | **25 Oct 2022** | --- | --- |
| Machine Age | hrs | Client Info | | **0** | --- | --- |
| Oil Age | hrs | Client Info | | **0** | --- | --- |
| Oil Changed | | Client Info | | **N/A** | --- | --- |
| Sample Status | | | | **NORMAL** | --- | --- |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Iron | ppm | ASTM D5185m | >5 | **0** | --- | --- |
| Chromium | ppm | ASTM D5185m | >5 | **0** | --- | --- |
| Nickel | ppm | ASTM D5185m | >5 | **0** | --- | --- |
| Titanium | ppm | ASTM D5185m | | **0** | --- | --- |
| Silver | ppm | ASTM D5185m | >5 | **<1** | --- | --- |
| Aluminum | ppm | ASTM D5185m | >5 | **2** | --- | --- |
| Lead | ppm | ASTM D5185m | >5 | **0** | --- | --- |
| Copper | ppm | ASTM D5185m | >5 | **<1** | --- | --- |
| Tin | ppm | ASTM D5185m | >5 | **<1** | --- | --- |
| Vanadium | ppm | ASTM D5185m | | **0** | --- | --- |
| Cadmium | ppm | ASTM D5185m | | **0** | --- | --- |

| ADDITIVES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Boron | ppm | ASTM D5185m | | **0** | --- | --- |
| Barium | ppm | ASTM D5185m | | **0** | --- | --- |
| Molybdenum | ppm | ASTM D5185m | | **0** | --- | --- |
| Manganese | ppm | ASTM D5185m | | **<1** | --- | --- |
| Magnesium | ppm | ASTM D5185m | | **8** | --- | --- |
| Calcium | ppm | ASTM D5185m | | **1354** | --- | --- |
| Phosphorus | ppm | ASTM D5185m | | **303** | --- | --- |
| Zinc | ppm | ASTM D5185m | | **326** | --- | --- |
| Sulfur | ppm | ASTM D5185m | | **2413** | --- | --- |

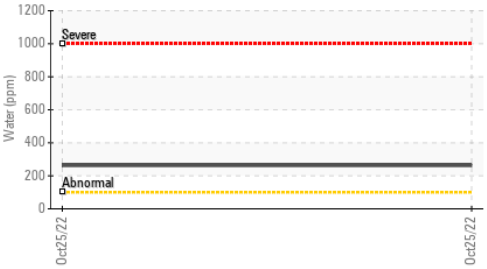
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185m | >15 | **4** | --- | --- |
| Sodium | ppm | ASTM D5185m | | **<1** | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | **<1** | --- | --- |
| Water | % | ASTM D6304 | | **0.026** | --- | --- |
| ppm Water | ppm | ASTM D6304 | | **263** | --- | --- |

| FLUID CLEANLINESS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Particles >4µm | | ASTM D7647 | >5000 | **3445** | --- | --- |
| Particles >6µm | | ASTM D7647 | >1300 | **537** | --- | --- |
| Particles >14µm | | ASTM D7647 | >160 | **11** | --- | --- |
| Particles >21µm | | ASTM D7647 | >40 | **4** | --- | --- |
| Particles >38µm | | ASTM D7647 | >10 | **0** | --- | --- |
| Particles >71µm | | ASTM D7647 | >3 | **0** | --- | --- |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | **19/16/11** | --- | --- |

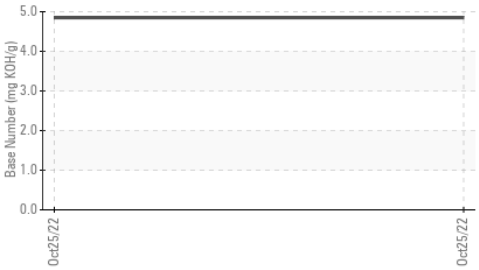
| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | **0.77** | --- | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | **4.85** | --- | --- |

# OIL ANALYSIS REPORT

Water (KF)

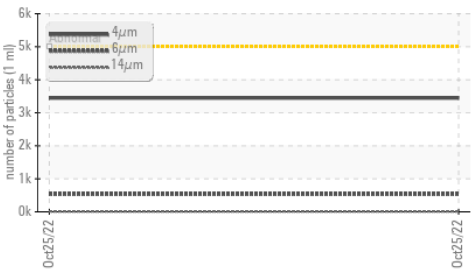



Base Number

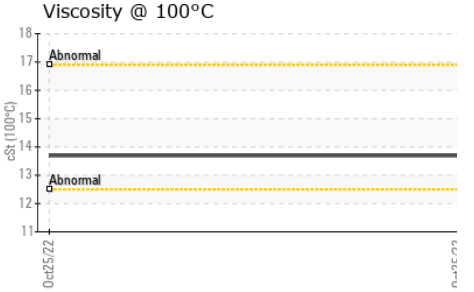



Viscosity @ 100°C


Particle Trend




Viscosity @ 100°C




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

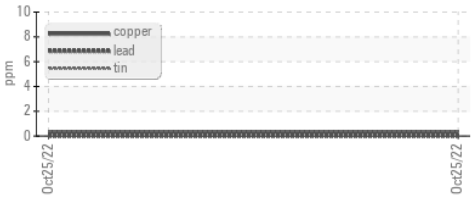
| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Visc @ 40°C | cSt | ASTM D445 | | **135.9** | --- | --- |
| Visc @ 100°C | cSt | ASTM D445 | | **13.69** | --- | --- |
| Viscosity Index (VI) | Scale | ASTM D2270 | | **96** | --- | --- |

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

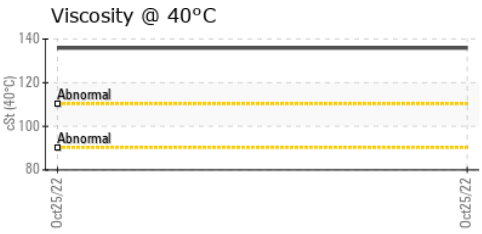
GRAPHS

Ferrous Alloys

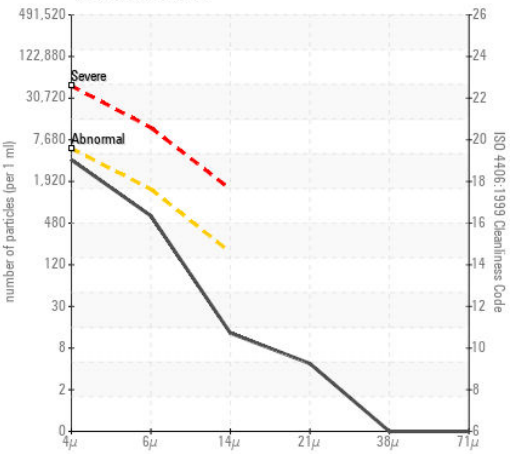

Non-ferrous Metals



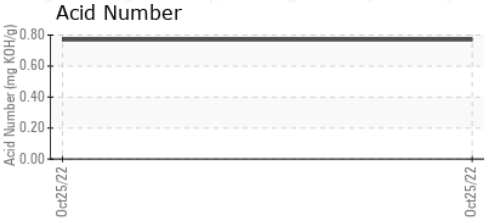

Viscosity @ 40°C




Particle Count




Acid Number




**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : USP0012874 **Received** : 31 May 2024
**Lab Number** : 06197176 **Tested** : 05 Jun 2024
**Unique Number** : 11059299 **Diagnosed** : 05 Jun 2024 - Jonathan Hester
**Test Package** : IND 2 ( Additional Tests: FT-IR, ICP-NewOil, KV100, TBN, VI )

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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