



RAPPORT D'ANALYSE D'HUILE

| | |
|----------------|---------------|
| USURE | NORMAL |
| CONTAMINATION | NORMAL |
| ÉTAT DU FLUIDE | NORMAL |

Secteur

Equipment de Pont/Pont

Identité de la machine

17B01#1 Treuil d'amarrage Avant Babord (S/N C-10093)

Composant

Treuil Avant

Fluide

PETRO CANADA HYDREX MV ARCTIC 15 (270 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---------------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Numéro d'échant. | | Client Info | | WC0811234 | WC0549539 | WC0627052 |
| Date d'échant. | | Client Info | | 25 Oct 2023 | 31 Mar 2023 | 26 Aug 2022 |
| Âge d la Machine | hrs | Client Info | | 0 | 0 | 0 |
| Âge de l'huile | hrs | Client Info | | 0 | 0 | 0 |
| Âge du filtre | hrs | Client Info | | 0 | 0 | 0 |
| Huile changée | | Client Info | | N/A | Not Changd | Not Changd |
| Filtre changé | | Client Info | | N/A | Not Changd | Not Changd |
| Statut de l'échant. | | | | NORMAL | NORMAL | NORMAL |

USURE

All component wear rates are normal.

| | | | | | | |
|-------------|--------|---------------|------|--------------|------|------|
| Fer | ppm | ASTM D5185(m) | >30 | <1 | <1 | <1 |
| Chrome | ppm | ASTM D5185(m) | >2 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) | >2 | 0 | <1 | <1 |
| Titane | ppm | ASTM D5185(m) | >2 | 0 | 0 | 0 |
| Argent | ppm | ASTM D5185(m) | >2 | <1 | 0 | 0 |
| Aluminium | ppm | ASTM D5185(m) | >5 | 0 | <1 | 0 |
| Plomb | ppm | ASTM D5185(m) | >70 | <1 | <1 | 2 |
| Cuivre | ppm | ASTM D5185(m) | >65 | 1 | <1 | <1 |
| Étain | ppm | ASTM D5185(m) | >9 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Métal blanc | scalar | Visual* | NONE | NONE | NONE | NONE |
| Bronze | scalar | Visual* | NONE | NONE | NONE | NONE |

CONTAMINATION

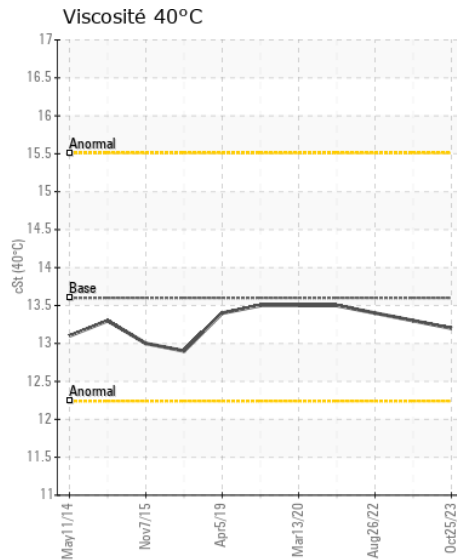
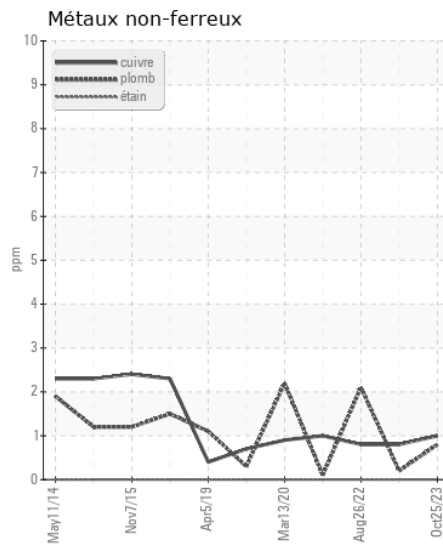
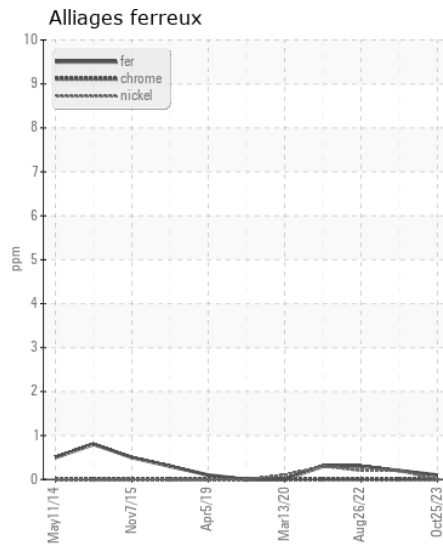
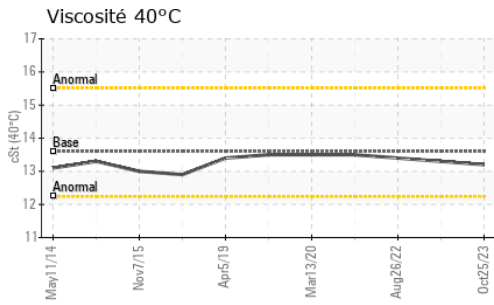
There is no indication of any contamination in the oil.

| | | | | | | |
|----------------|--------|---------------|-------|--------------|-------|-------|
| Silicium | ppm | ASTM D5185(m) | >30 | <1 | <1 | <1 |
| Potassium | ppm | ASTM D5185(m) | >20 | 0 | 0 | <1 |
| Limon | scalar | Visual* | NONE | NONE | NONE | NONE |
| Débris | scalar | Visual* | NONE | NONE | NONE | NONE |
| Saleté | scalar | Visual* | NONE | NONE | NONE | NONE |
| Apparence | scalar | Visual* | NORML | NORML | NORML | NORML |
| Odeur | scalar | Visual* | NORML | NORML | NORML | NORML |
| Eau émulsifiée | scalar | Visual* | >0.2 | NEG | NEG | NEG |

ÉTAT DU FLUIDE

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

| | | | | | | |
|-----------|-----|---------------|------|--------------|------|------|
| Sodium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Bore | ppm | ASTM D5185(m) | 0 | 0 | 0 | <1 |
| Baryum | ppm | ASTM D5185(m) | 0 | <1 | 0 | 0 |
| Molybdène | ppm | ASTM D5185(m) | 0 | 0 | <1 | 0 |
| Manganèse | ppm | ASTM D5185(m) | 0 | 0 | 0 | 0 |
| Magnésium | ppm | ASTM D5185(m) | 0 | 0 | 0 | <1 |
| Calcium | ppm | ASTM D5185(m) | 50 | 48 | 51 | 49 |
| Phosphore | ppm | ASTM D5185(m) | 330 | 280 | 322 | 307 |
| Zinc | ppm | ASTM D5185(m) | 430 | 312 | 327 | 331 |
| Soufre | ppm | ASTM D5185(m) | 760 | 772 | 871 | 779 |
| Visc 40°C | cSt | ASTM D7279(m) | 13.6 | 13.2 | 13.3 | 13.4 |



ISO 17025:2017
Accredited
Laboratory

Laboratoire : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
N° d'échantillon : WC0811234
N° de laboratoire : 02593214
Numéro unique : 5670293
Analyse : MAR 1

Reçu : 01 Nov 2023
Diagnostiqué : 01 Nov 2023
Diagnostiqueur : Wes Davis

Canadian Coast Guard
 CCGS Amundsen, 101 Boul. Champlain
 Quebec, QC
 CA G1K 7Y7

Contact: Chief Engineer
 amundsense@ccgs-ngcc.gc.ca
 T: (418)953-8233

Pour discuter ce rapport, contacter le service à la clientèle au 1-800-268-2131.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

La validez de los resultados y la interpretación se basan en la muestra y la información proporcionada.

F: x: