



POWER SYSTEMS
SYSTÈMES DE PUISSANCE

RAPPORT D'ANALYSE D'HUILE

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

Secteur

ADMINISTRATION PORTUAIRE DE QUEBEC [6100278374]

Identité de la machine

20131506

Composant

Transmission

Fluid

IRVING IDO UNIVERSAL SAE 30 (--- GAL)

RECOMMANDATION

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---------------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Numéro d'échant. | | Client Info | | WA0020166 | WA0018815 | WA0016420 |
| Date d'échant. | | Client Info | | 27 Mar 2024 | 30 Mar 2023 | 16 Apr 2021 |
| Âge d la Machine | hrs | Client Info | | 1227 | 0 | 0 |
| Âge de l'huile | hrs | Client Info | | 200 | 0 | 0 |
| Âge du filtre | hrs | Client Info | | 200 | 0 | 0 |
| Huile changée | | Client Info | | Not Changd | N/A | N/A |
| Filtre changé | | Client Info | | Changed | N/A | N/A |
| Statut de l'échant. | | | | NORMAL | NORMAL | NORMAL |

USURE

Les taux d'usure de tous les composants sont normaux.

| | | | | | | |
|-------------|--------|---------------|------|--------------|------|------|
| PQ | | ASTM D8184* | | 0 | 0 | 0 |
| Fer | ppm | ASTM D5185(m) | >200 | 4 | 3 | 6 |
| Chrome | ppm | ASTM D5185(m) | >10 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) | | 0 | <1 | <1 |
| Titane | ppm | ASTM D5185(m) | | <1 | <1 | 2 |
| Argent | ppm | ASTM D5185(m) | | 0 | 0 | <1 |
| Aluminium | ppm | ASTM D5185(m) | >50 | 2 | 2 | 4 |
| Plomb | ppm | ASTM D5185(m) | >50 | 2 | 2 | 2 |
| Cuivre | ppm | ASTM D5185(m) | >200 | 5 | 3 | 5 |
| Étain | ppm | ASTM D5185(m) | >10 | 4 | 5 | <1 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Métal blanc | scalar | Visual* | NONE | NONE | NONE | NONE |
| Bronze | scalar | Visual* | NONE | NONE | NONE | NONE |

CONTAMINATION

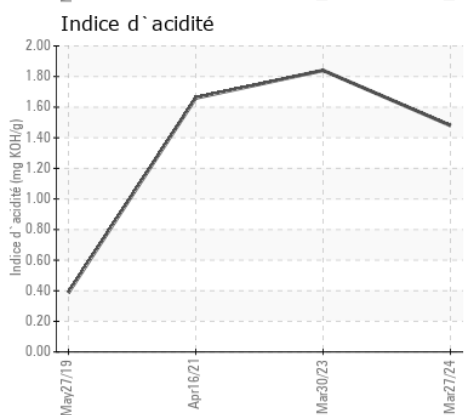
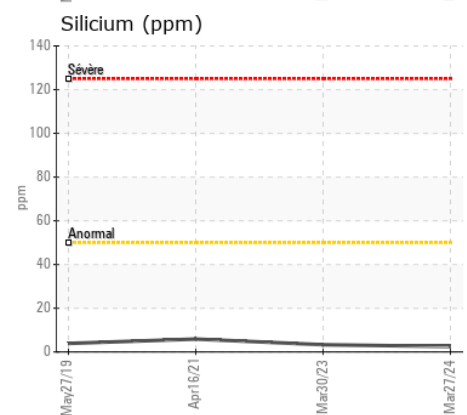
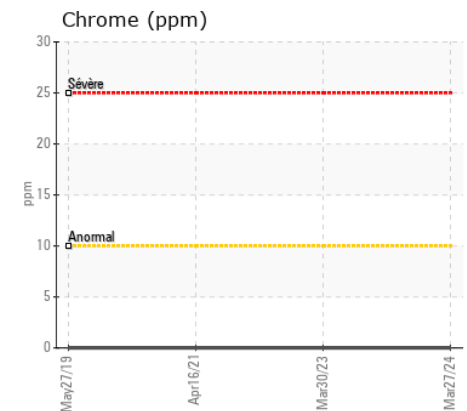
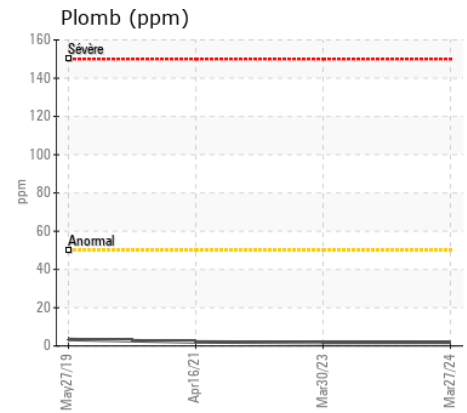
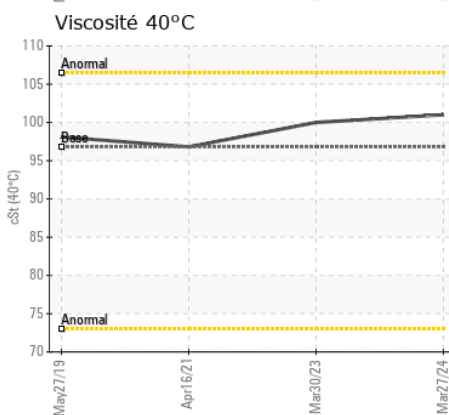
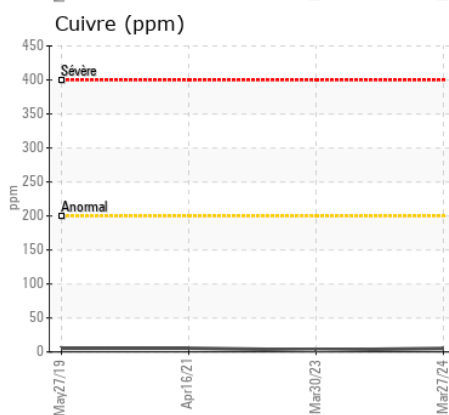
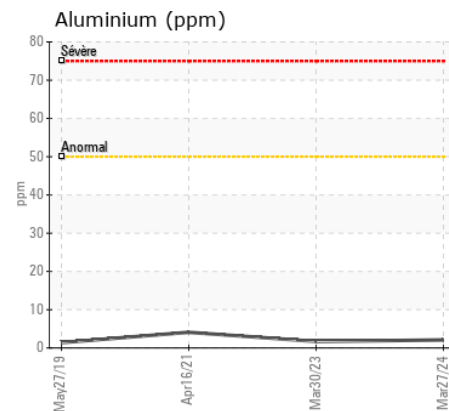
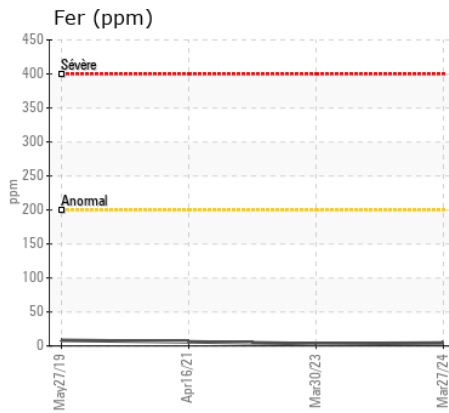
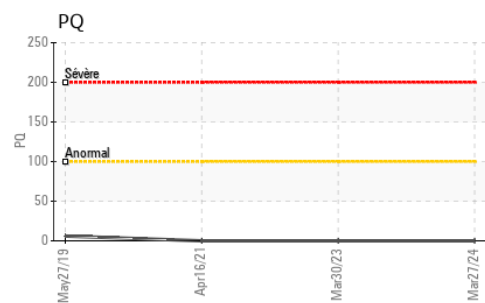
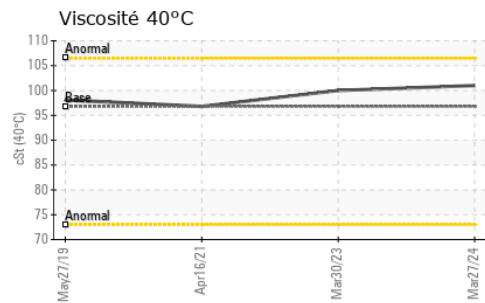
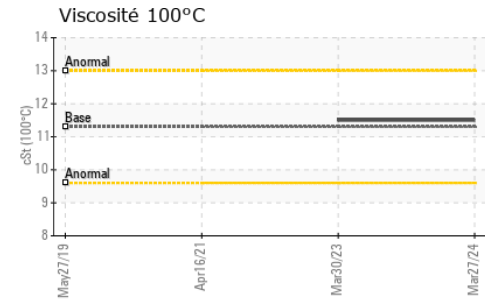
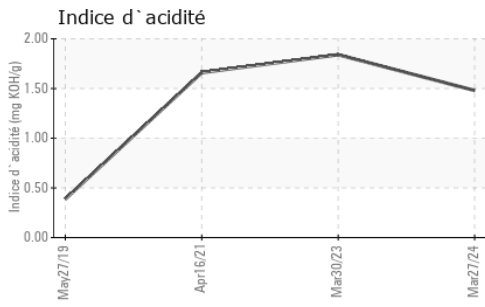
Il n'y a aucun indice de contamination dans le fluide.

| | | | | | | |
|----------------|----------|---------------|-------|--------------|-------|-------|
| Silicium | ppm | ASTM D5185(m) | >50 | 2 | 3 | 6 |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | 1 | <1 |
| L'eau | | WC Method | >0.1 | NEG | NEG | NEG |
| % de suie | % | ASTM D7844* | | 0 | 0 | --- |
| Nitration | Abs/cm | ASTM D7624* | | 5.1 | 5.1 | --- |
| Sulfatation | Abs/.1mm | ASTM D7415* | | 15.3 | 18.1 | --- |
| 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* | >0.1 | NEG | NEG | NEG |

ÉTAT DU FLUIDE

Le AN est acceptable pour ce fluide. L'état de le fluide permet d'en prolonger l'utilisation.

| | | | | | | |
|--------------------------|----------|---------------|------|--------------|------|------|
| Sodium | ppm | ASTM D5185(m) | | 2 | 2 | 1 |
| Bore | ppm | ASTM D5185(m) | 272 | 273 | 279 | 256 |
| Baryum | ppm | ASTM D5185(m) | 1.2 | <1 | 0 | <1 |
| Molybdène | ppm | ASTM D5185(m) | 2.0 | 0 | <1 | <1 |
| Manganèse | ppm | ASTM D5185(m) | | 0 | <1 | <1 |
| Magnésium | ppm | ASTM D5185(m) | 152 | 205 | 203 | 188 |
| Calcium | ppm | ASTM D5185(m) | 2112 | 2092 | 2084 | 2094 |
| Phosphore | ppm | ASTM D5185(m) | 1036 | 782 | 847 | 769 |
| Zinc | ppm | ASTM D5185(m) | 900 | 856 | 831 | 872 |
| Soufre | ppm | ASTM D5185(m) | 5348 | 7901 | 7857 | 7785 |
| Oxydation | Abs/.1mm | ASTM D7414* | | 6.9 | 6.8 | --- |
| Indice d'acidité | mg KOH/g | ASTM D974* | | 1.48 | 1.84 | 1.66 |
| Visc 40°C | cSt | ASTM D7279(m) | 96.8 | 101 | 100 | 96.8 |
| Visc 100°C | cSt | ASTM D7279(m) | 11.3 | 11.5 | 11.5 | --- |
| Indice de viscosité (VI) | Scale | ASTM D2270* | 103 | 100 | 102 | --- |



ISO 17025:2017
Accredited
Laboratory

Laboratoire : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
N° d'échantillon : WA0020166
N° de laboratoire : 02626002
Numéro unique : 5759134
Analyse : MOB 2 (Additional Tests: FT-IR, KV100, PQ, TAN Man, VI)
Reçu : 02 Apr 2024
Tested : 03 Apr 2024
Diagnostiqué : 03 Apr 2024 - Wes Davis

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.

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