



# RAPPORT D'ANALYSE D'HUILE

USURE	<b>NORMAL</b>
CONTAMINATION	<b>ANORMAL</b>
ÉTAT DU FLUIDE	<b>NORMAL</b>

Secteur

## Equipment de Pont

Identité de la machine

### 17A02D Guindeau (S/N C-1084)

Composant

### Système hydraulique Avant

Fluide

### PETRO CANADA HYDREX MV ARCTIC 15 (400 LTR)

#### RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Numéro d'échant.		Client Info		<b>WC0811230</b>	WC0549536	WC0627022
Date d'échant.		Client Info		<b>24 Oct 2023</b>	02 Apr 2023	18 Oct 2022
Âge d la Machine	hrs	Client Info		<b>0</b>	0	0
Âge de l'huile	hrs	Client Info		<b>0</b>	0	0
Âge du filtre	hrs	Client Info		<b>0</b>	0	0
Huile changée		Client Info		<b>N/A</b>	Not Changd	Not Changd
Filtre changé		Client Info		<b>N/A</b>	Not Changd	Not Changd
Statut de l'échant.				<b>ABNORMAL</b>	NORMAL	ATTENTION

#### USURE

All component wear rates are normal.

Fer	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Chrome	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>10	<b>0</b>	<1	0
Titane	ppm	ASTM D5185(m)		<b>0</b>	0	0
Argent	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Aluminium	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Plomb	ppm	ASTM D5185(m)	>20	<b>3</b>	2	1
Cuivre	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	<1
Étain	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Métal blanc	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Bronze	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

#### CONTAMINATION

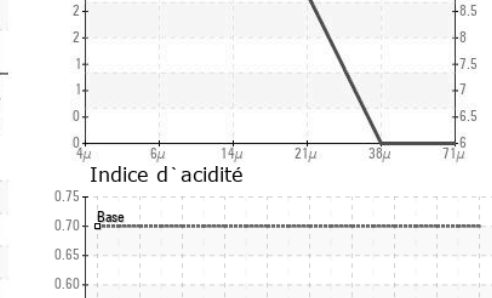
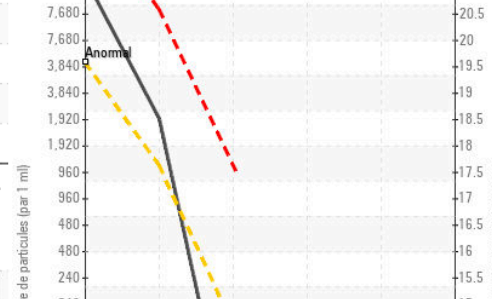
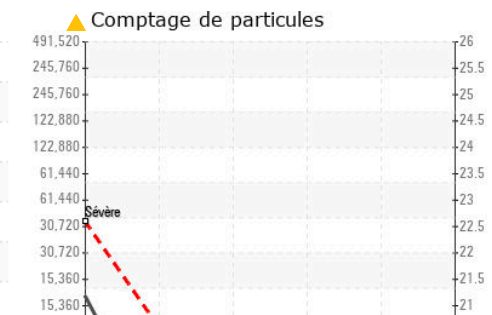
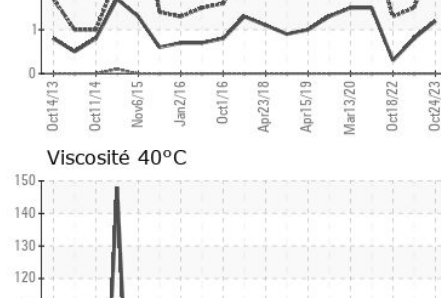
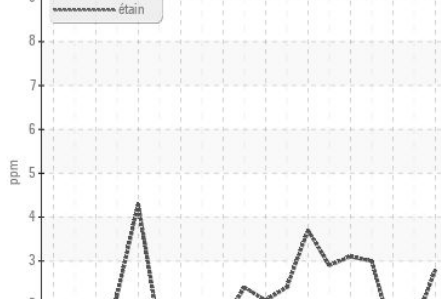
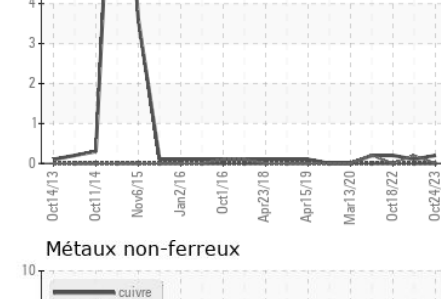
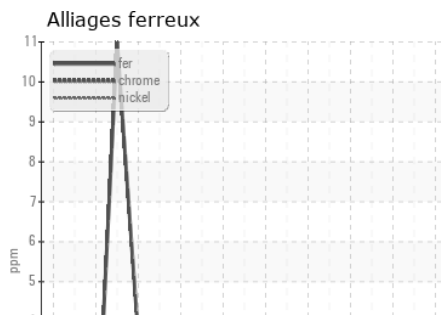
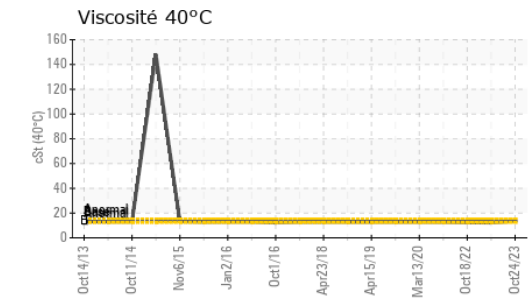
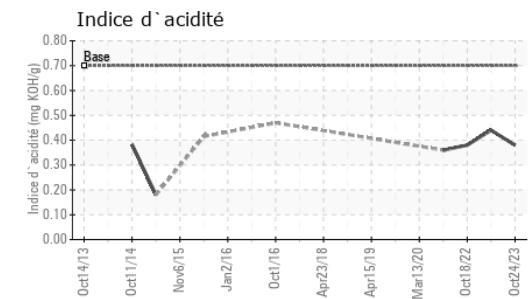
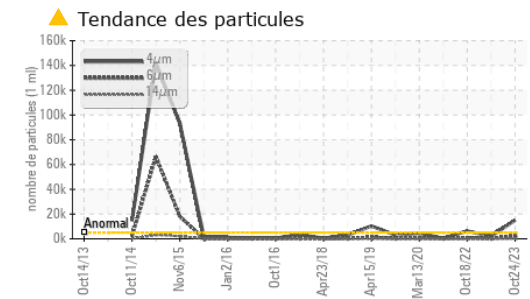
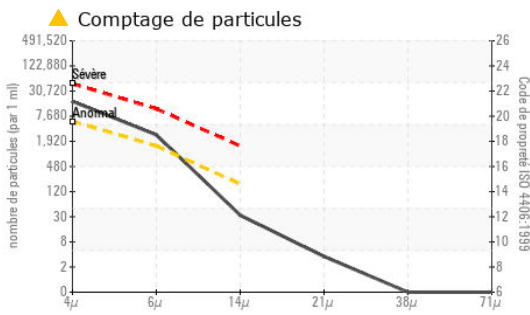
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicium	ppm	ASTM D5185(m)	>15	<b>1</b>	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	<1
Particules >4µ		ASTM D7647	>5000	<b>▲ 15071</b>	2050	<b>▲ 6314</b>
Particules >6µ		ASTM D7647	>1300	<b>▲ 2403</b>	284	<b>812</b>
Particules >14µ		ASTM D7647	>160	<b>29</b>	12	<b>26</b>
Particules >21µ		ASTM D7647	>40	<b>3</b>	2	<b>8</b>
Particules >38µ		ASTM D7647	>10	<b>0</b>	0	<b>1</b>
Particules >71µ		ASTM D7647	>3	<b>0</b>	0	<b>0</b>
Propreté de l'huile		ISO 4406 (c)	>19/17/14	<b>▲ 21/18/12</b>	18/15/11	<b>▲ 20/17/12</b>
Limon	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Débris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Saleté	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Apparence	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odeur	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Eau émulsifiée	scalar	Visual*	>0.05	<b>NEG</b>	NEG	NEG

#### ÉTAT DU FLUIDE

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Bore	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	0
Baryum	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdène	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Manganèse	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Magnésium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Calcium	ppm	ASTM D5185(m)	50	<b>47</b>	49	48
Phosphore	ppm	ASTM D5185(m)	330	<b>283</b>	314	302
Zinc	ppm	ASTM D5185(m)	430	<b>355</b>	355	343
Soufre	ppm	ASTM D5185(m)	760	<b>677</b>	721	702
Indice d'acidité	mg KOH/g	ASTM D974*	0.70	<b>0.38</b>	0.44	0.38
Visc 40°C	cSt	ASTM D7279(m)	13.6	<b>13.5</b>	12.2	12.3



**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**N° d'échantillon** : WC0811230  
**N° de laboratoire** : 02593239  
**Numéro unique** : 5670318  
**Analyse** : MAR 2

**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  
 F: x:

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.