



# RAPPORT D'ANALYSE D'HUILE

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

Secteur

## Propulsion/Salle des Machines

Identité de la machine

### 12A02#04 (S/N M4113-R)

Composant

### Moteur diesel 4

Fluide

### PETRO CANADA RALUBE 40 CFS (720 LTR)

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Numéro d'échant.		Client Info		<b>WC0751422</b>	WC0751397	WC
Date d'échant.		Client Info		<b>23 Oct 2023</b>	01 Apr 2023	18 Oct 2022
Âge d la Machine	hrs	Client Info		<b>6035</b>	4292	3885
Âge de l'huile	hrs	Client Info		<b>1655</b>	2686	2279
Âge du filtre	hrs	Client Info		<b>1655</b>	2686	2279
Huile changée		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filtre changé		Client Info		<b>N/A</b>	Not Changd	Not Changd
Statut de l'échant.				<b>NORMAL</b>	NORMAL	NORMAL

### USURE

All component wear rates are normal.

Fer	ppm	ASTM D5185(m)	>100	<b>6</b>	6	6
Chrome	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	0
Titane	ppm	ASTM D5185(m)		<b>0</b>	0	0
Argent	ppm	ASTM D5185(m)	>3	<b>&lt;1</b>	0	0
Aluminium	ppm	ASTM D5185(m)	>20	<b>2</b>	2	2
Plomb	ppm	ASTM D5185(m)	>40	<b>0</b>	0	0
Cuivre	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	<1
Étain	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	<1
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

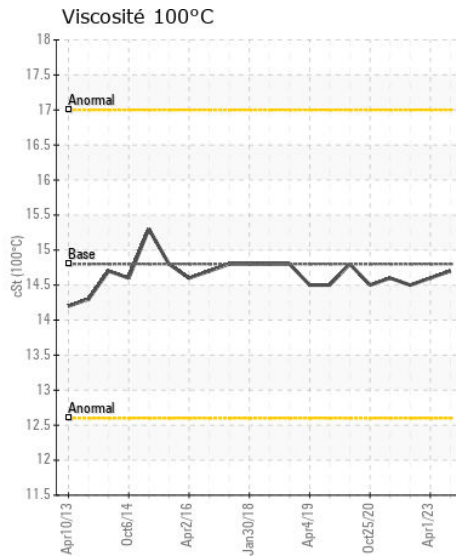
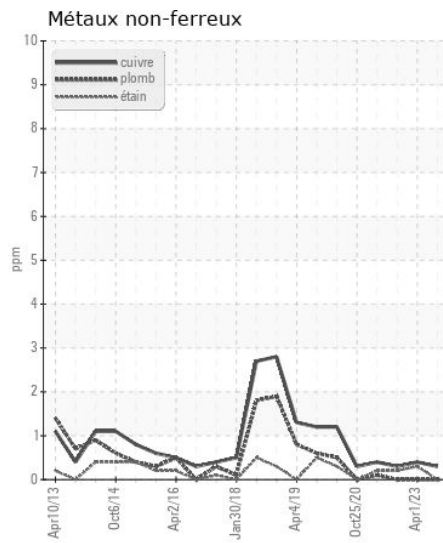
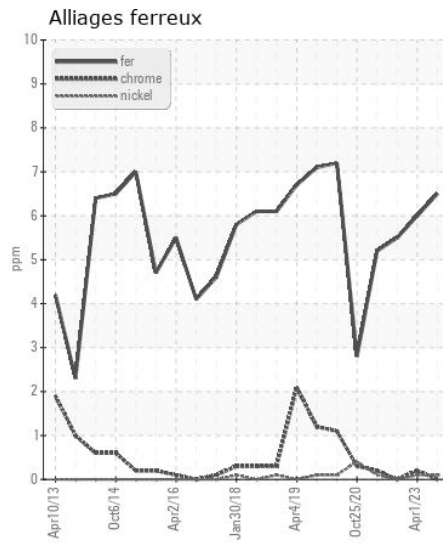
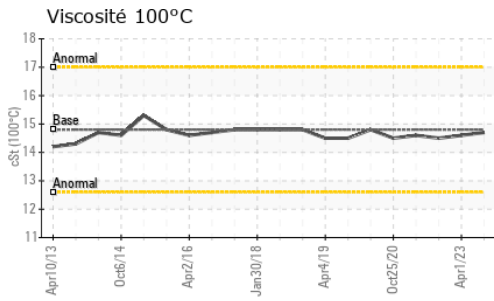
There is no indication of any contamination in the oil.

Silicium	ppm	ASTM D5185(m)	>25	<b>4</b>	3	2
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	1
Essence		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Glycol		WC Method		<b>NEG</b>	NEG	NEG
% de suie	%	ASTM D7844*	>2	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>13.0</b>	13.2	13.4
Sulfatation	Abs/.1mm	ASTM D7415*	>30	<b>14.8</b>	14.7	15.4
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*	>0.2	<b>NEG</b>	NEG	NEG

### ÉTAT DU FLUIDE

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

Sodium	ppm	ASTM D5185(m)		<b>3</b>	2	2
Bore	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	<1
Baryum	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Molybdène	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Manganèse	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Magnésium	ppm	ASTM D5185(m)	25	<b>15</b>	23	21
Calcium	ppm	ASTM D5185(m)	4300	<b>4787</b>	4825	4839
Phosphore	ppm	ASTM D5185(m)	1.6	<b>4</b>	5	3
Zinc	ppm	ASTM D5185(m)	2	<b>4</b>	6	4
Soufre	ppm	ASTM D5185(m)	1500	<b>3069</b>	3164	3115
Oxydation	Abs/.1mm	ASTM D7414*	>25	<b>11.0</b>	11.6	12.1
Visc 100°C	cSt	ASTM D7279(m)	14.8	<b>14.7</b>	14.6	14.5



ISO 17025:2017  
Accredited  
Laboratory

**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**N° d'échantillon** : WC0751422  
**N° de laboratoire** : 02593087  
**Numéro unique** : 5670166  
**Analyse** : MAR 1

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

**Canadian Coast Guard**  
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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.