



# 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#03 (S/N M4114-R)**

Composant

**Moteur diesel 3**

Fluid

**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>WC0878499</b>	WC0751424	WC0751396
Date d'échant.		Client Info		<b>15 Mar 2024</b>	24 Oct 2023	01 Apr 2023
Âge d la Machine	hrs	Client Info		<b>18888</b>	18126	16990
Âge de l'huile	hrs	Client Info		<b>0</b>	963	4798
Âge du filtre	hrs	Client Info		<b>0</b>	963	4798
Huile changée		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filtre changé		Client Info		<b>Not Changd</b>	N/A	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>7</b>	6	10
Chrome	ppm	ASTM D5185(m)	>20	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	<1
Titane	ppm	ASTM D5185(m)		<b>0</b>	0	0
Argent	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	0
Aluminium	ppm	ASTM D5185(m)	>20	<b>2</b>	2	2
Plomb	ppm	ASTM D5185(m)	>40	<b>0</b>	<1	<1
Cuivre	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	<1
Étain	ppm	ASTM D5185(m)	>15	<b>0</b>	0	<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

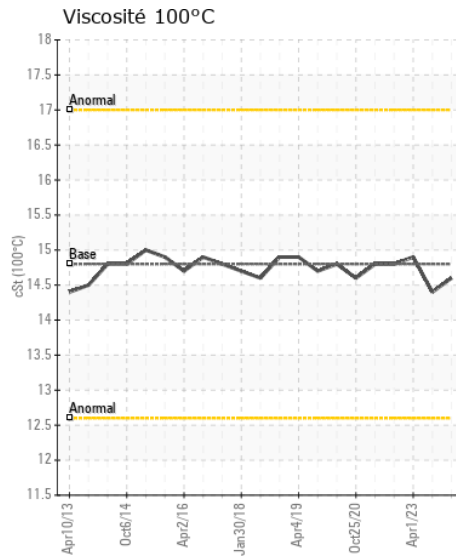
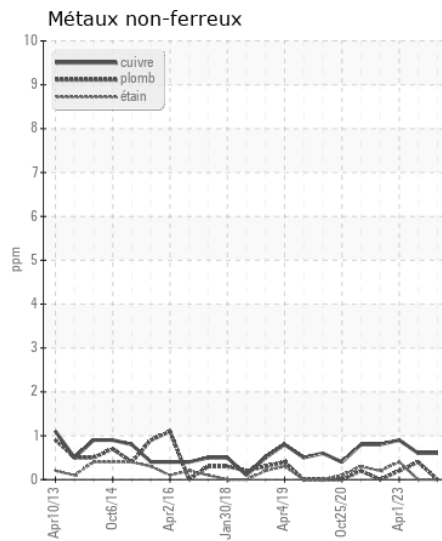
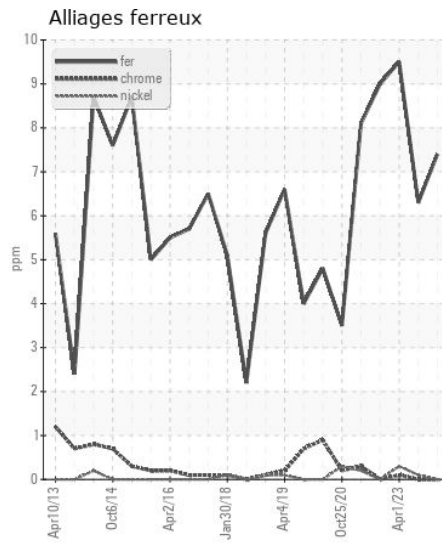
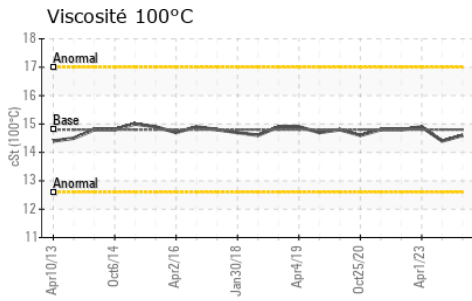
There is no indication of any contamination in the oil.

Silicium	ppm	ASTM D5185(m)	>25	<b>2</b>	3	3
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	2
Essence		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
L'eau		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
% de suie	%	ASTM D7844*	>2	<b>0.1</b>	0.1	0.2
Nitration	Abs/cm	ASTM D7624*	>20	<b>14.1</b>	13.3	14.7
Sulfatation	Abs/.1mm	ASTM D7415*	>30	<b>15.1</b>	14.7	15.6
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>2</b>	3	2
Bore	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Baryum	ppm	ASTM D5185(m)	0	<b>0</b>	<1	0
Molybdène	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Manganèse	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Magnésium	ppm	ASTM D5185(m)	25	<b>16</b>	19	22
Calcium	ppm	ASTM D5185(m)	4300	<b>4661</b>	4709	4974
Phosphore	ppm	ASTM D5185(m)	1.6	<b>5</b>	8	3
Zinc	ppm	ASTM D5185(m)	2	<b>6</b>	9	4
Soufre	ppm	ASTM D5185(m)	1500	<b>2958</b>	3063	3132
Oxydation	Abs/.1mm	ASTM D7414*	>25	<b>12.3</b>	11.1	12.9
Visc 100°C	cSt	ASTM D7279(m)	14.8	<b>14.6</b>	14.4	14.9



**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**N° d'échantillon** : WC0878499  
**N° de laboratoire** : 02624165  
**Numéro unique** : 5749284  
**Analyse** : MAR 1

**Canadian Coast Guard**  
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 Quebec, QC  
 CA G1K 7Y7  
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 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.