



RAPPORT D'ANALYSE D'HUILE

USURE	NORMAL
CONTAMINATION	NORMAL
ÉTAT DU FLUIDE	NORMAL

Secteur

Propulsion/Salle des Machines

Identité de la machine

12A02#03 (S/N M4114-R)

Composant

Moteur diesel 3

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		WC0751424	WC0751396	WC
Date d'échant.		Client Info		24 Oct 2023	01 Apr 2023	18 Oct 2022
Âge d la Machine	hrs	Client Info		18126	16990	16533
Âge de l'huile	hrs	Client Info		963	4798	4342
Âge du filtre	hrs	Client Info		963	4798	4342
Huile changée		Client Info		Not Changd	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)	>100	6	10	9
Chrome	ppm	ASTM D5185(m)	>20	0	<1	0
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	0
Titane	ppm	ASTM D5185(m)		0	0	0
Argent	ppm	ASTM D5185(m)	>3	<1	0	0
Aluminium	ppm	ASTM D5185(m)	>20	2	2	2
Plomb	ppm	ASTM D5185(m)	>40	<1	<1	0
Cuivre	ppm	ASTM D5185(m)	>330	<1	<1	<1
Étain	ppm	ASTM D5185(m)	>15	0	<1	<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

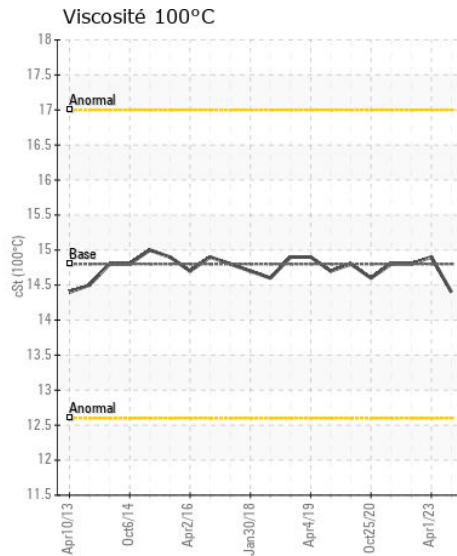
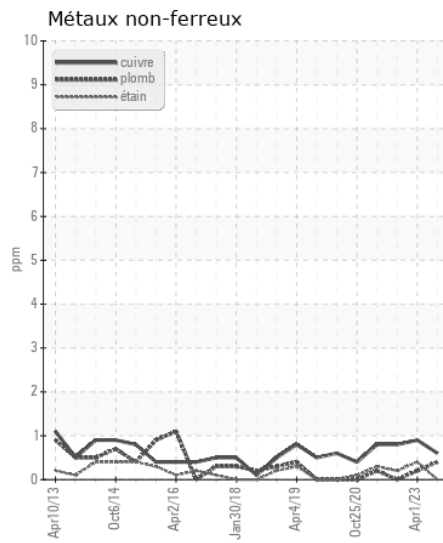
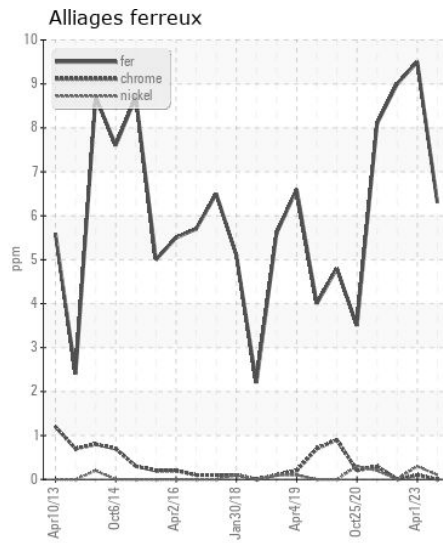
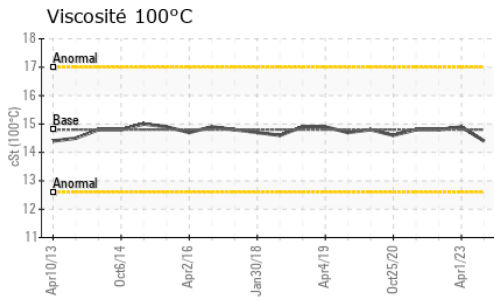
There is no indication of any contamination in the oil.

Silicium	ppm	ASTM D5185(m)	>25	3	3	3
Potassium	ppm	ASTM D5185(m)	>20	0	2	1
Essence		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
% de suie	%	ASTM D7844*	>2	0.1	0.2	0.2
Nitration	Abs/cm	ASTM D7624*	>20	13.3	14.7	15.0
Sulfatation	Abs/.1mm	ASTM D7415*	>30	14.7	15.6	16.6
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)		3	2	2
Bore	ppm	ASTM D5185(m)	0	<1	<1	<1
Baryum	ppm	ASTM D5185(m)	0	<1	0	0
Molybdène	ppm	ASTM D5185(m)	0	0	0	0
Manganèse	ppm	ASTM D5185(m)	0	0	<1	<1
Magnésium	ppm	ASTM D5185(m)	25	19	22	22
Calcium	ppm	ASTM D5185(m)	4300	4709	4974	5019
Phosphore	ppm	ASTM D5185(m)	1.6	8	3	2
Zinc	ppm	ASTM D5185(m)	2	9	4	4
Soufre	ppm	ASTM D5185(m)	1500	3063	3132	3090
Oxydation	Abs/.1mm	ASTM D7414*	>25	11.1	12.9	13.5
Visc 100°C	cSt	ASTM D7279(m)	14.8	14.4	14.9	14.8



ISO 17025:2017
Accredited
Laboratory

Laboratoire : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
N° d'échantillon : WC0751424
N° de laboratoire : 02593083
Numéro unique : 5670162
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
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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.