



RAPPORT D'ANALYSE D'HUILE

USURE	NORMAL
CONTAMINATION	NORMAL
ÉTAT DU FLUIDE	NORMAL



Secteur

System de commande de gouvernail

Identité de la machine

12G02 Appareil a Gouverner Steering Gear (S/N 221-135-41)

Composant

Système hydraulique

Fluide

PETRO CANADA HYDREX MV 32 (950 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Numéro d'échant.		Client Info		WC0751408	WC0350186	WC0350196
Date d'échant.		Client Info		23 Oct 2023	13 Mar 2020	10 Sep 2019
Âge d la Machine	hrs	Client Info		33	0	0
Âge de l'huile	hrs	Client Info		0	0	0
Âge du filtre	hrs	Client Info		0	0	0
Huile changée		Client Info		N/A	N/A	N/A
Filtre changé		Client Info		N/A	N/A	N/A
Statut de l'échant.				NORMAL	ABNORMAL	ABNORMAL

USURE

All component wear rates are normal.

Fer	ppm	ASTM D5185(m)	>20	0	<1	<1
Chrome	ppm	ASTM D5185(m)	>10	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>10	0	<1	0
Titane	ppm	ASTM D5185(m)		0	0	0
Argent	ppm	ASTM D5185(m)		<1	0	<1
Aluminium	ppm	ASTM D5185(m)	>10	0	0	0
Plomb	ppm	ASTM D5185(m)	>10	<1	0	0
Cuivre	ppm	ASTM D5185(m)	>75	6	<1	<1
Étain	ppm	ASTM D5185(m)	>10	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Métal blanc	scalar	Visual*	NONE	NONE	NONE	NONE
Bronze	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

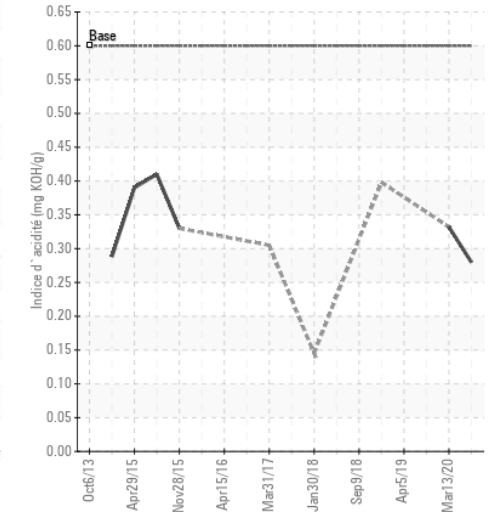
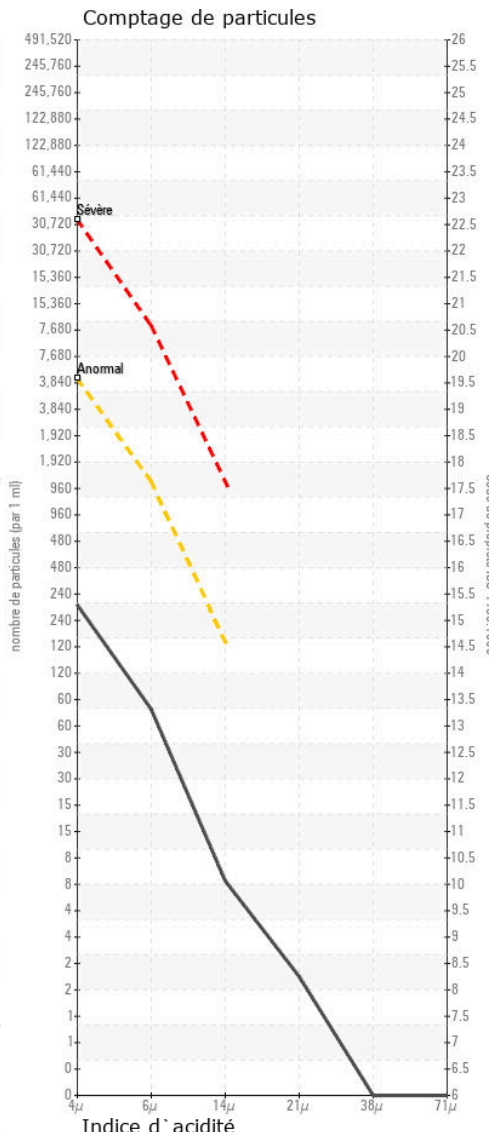
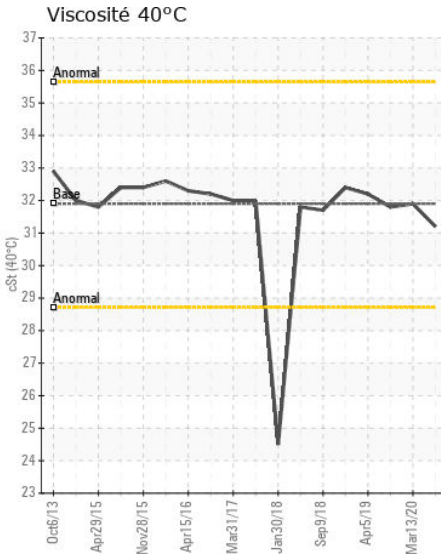
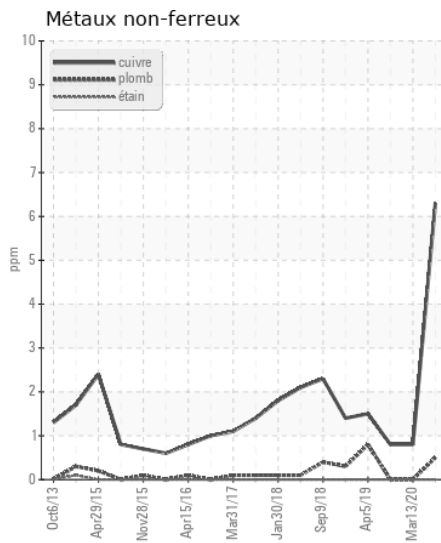
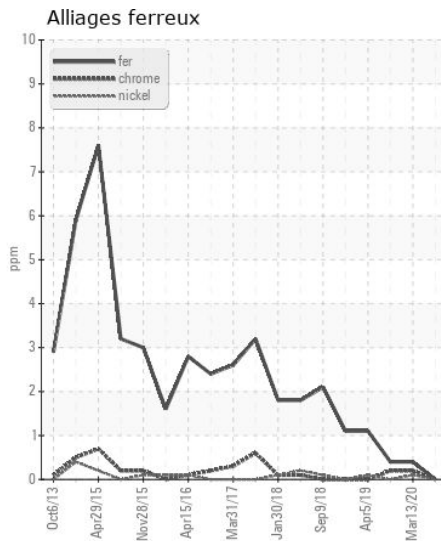
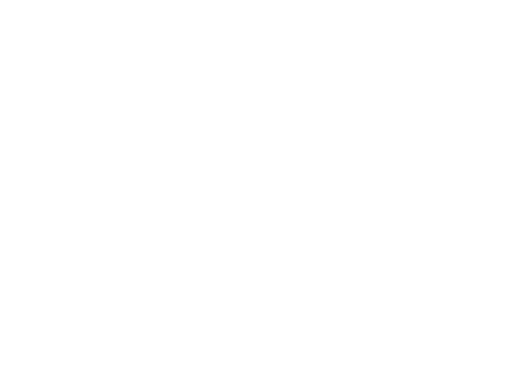
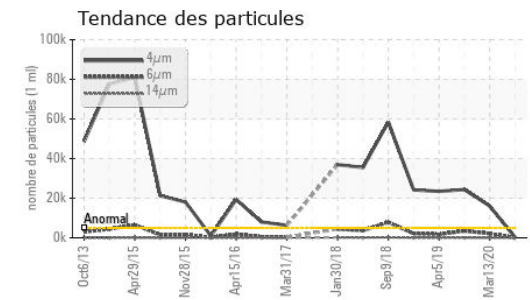
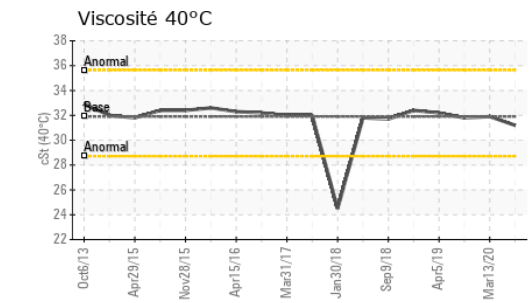
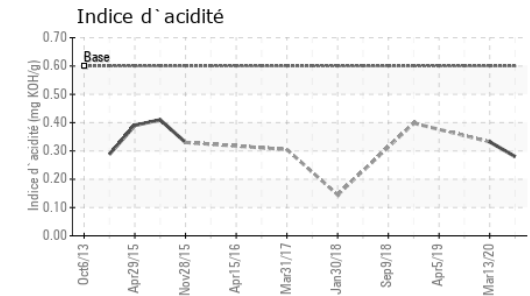
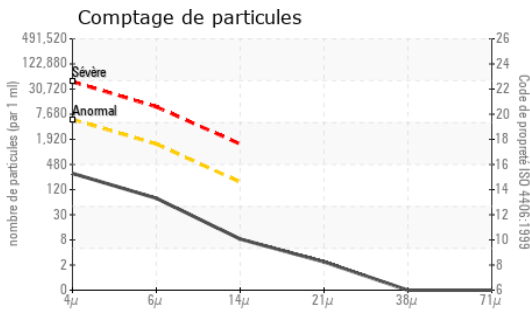
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicium	ppm	ASTM D5185(m)	>20	0	<1	0
Potassium	ppm	ASTM D5185(m)	>20	0	<1	<1
Particules >4µ		ASTM D7647	>5000	259	▲ 16038	▲ 24363
Particules >6µ		ASTM D7647	>1300	66	▲ 2131	▲ 3461
Particules >14µ		ASTM D7647	>160	7	45	75
Particules >21µ		ASTM D7647	>40	2	8	16
Particules >38µ		ASTM D7647	>10	0	0	0
Particules >71µ		ASTM D7647	>3	0	0	0
Propreté de l'huile		ISO 4406 (c)	>19/17/14	15/13/10	▲ 21/18/13	▲ 22/19/13
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

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		0	0	0
Bore	ppm	ASTM D5185(m)	0	0	0	0
Baryum	ppm	ASTM D5185(m)	0	<1	0	0
Molybdène	ppm	ASTM D5185(m)	0	0	0	0
Manganèse	ppm	ASTM D5185(m)	1	0	0	0
Magnésium	ppm	ASTM D5185(m)	0	<1	<1	<1
Calcium	ppm	ASTM D5185(m)	50	49	55	55
Phosphore	ppm	ASTM D5185(m)	330	320	338	341
Zinc	ppm	ASTM D5185(m)	430	402	419	424
Soufre	ppm	ASTM D5185(m)	760	689	787	776
Indice d'acidité	mg KOH/g	ASTM D974*	0.60	0.28	0.332	---
Visc 40°C	cSt	ASTM D7279(m)	31.9	31.2	31.9	31.8



Laboratoire : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
N° d'échantillon : WC0751408
N° de laboratoire : 02593211
Numéro unique : 5670290
Analyse : MAR 2

Canadian Coast Guard
 CCGS Amundsen, 101 Boul. Champlain
 Quebec, QC
 CA G1K 7Y7

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.

Contact: Chief Engineer
 amundsense@ccgs-ngcc.gc.ca
 T: (418)953-8233
 F: x: