



# RAPPORT D'ANALYSE D'HUILE

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

Identité de la machine

## FWD THRUSTER

Composant

### Boîte d'engrenages Inférieur

Fluide

### PANOLIN MARGEAR 100 (--- GAL)

#### RECOMMENDATION

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Numéro d'échant.		Client Info		<b>WC0829230</b>	WC0829228	---
Date d'échant.		Client Info		<b>06 Sep 2023</b>	06 Sep 2023	---
Âge d la Machine	hrs	Client Info		<b>8</b>	8	---
Âge de l'huile	hrs	Client Info		<b>8</b>	8	---
Âge du filtre	hrs	Client Info		<b>8</b>	8	---
Huile changée		Client Info		<b>N/A</b>	N/A	---
Filtre changé		Client Info		<b>N/A</b>	N/A	---
Statut de l'échant.				<b>NORMAL</b>	NORMAL	---

#### USURE

All component wear rates are normal.

PQ		ASTM D8184*		<b>0</b>	0	---
Fer	ppm	ASTM D5185(m)	>150	<b>&lt;1</b>	<1	---
Chrome	ppm	ASTM D5185(m)	>10	<b>0</b>	0	---
Nickel	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	---
Titane	ppm	ASTM D5185(m)		<b>1</b>	2	---
Argent	ppm	ASTM D5185(m)		<b>0</b>	0	---
Aluminium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	---
Plomb	ppm	ASTM D5185(m)	>65	<b>0</b>	0	---
Cuivre	ppm	ASTM D5185(m)	>80	<b>&lt;1</b>	<1	---
Étain	ppm	ASTM D5185(m)	>8	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Métal blanc	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Bronze	scalar	Visual*	NONE	<b>NONE</b>	NONE	---

#### CONTAMINATION

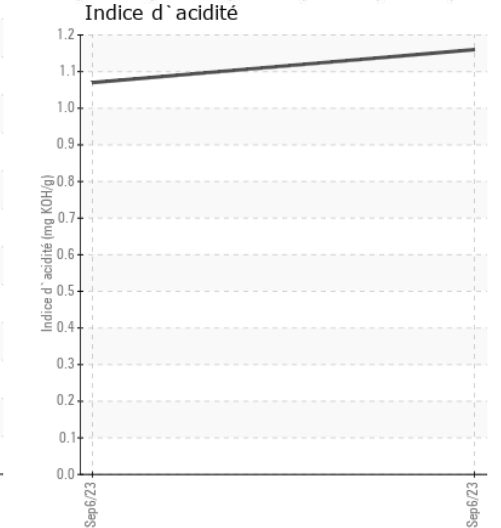
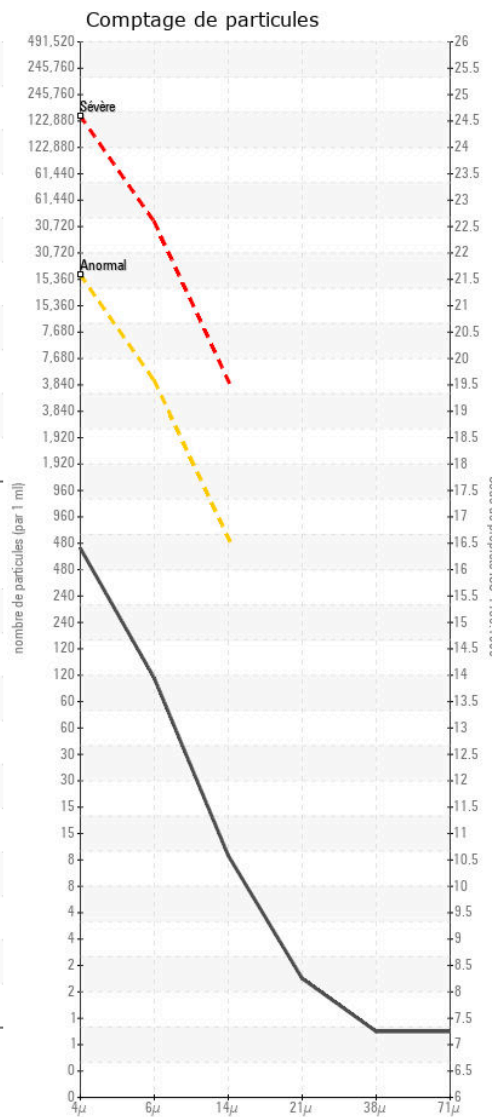
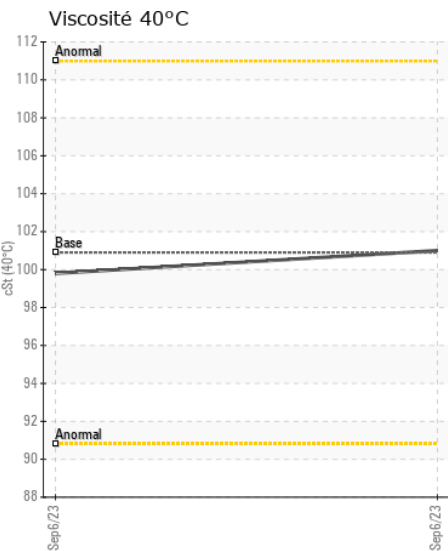
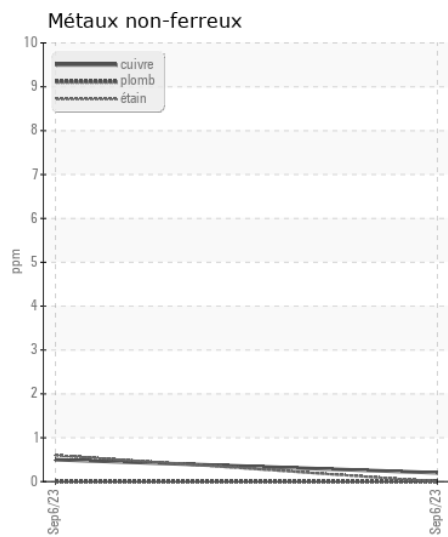
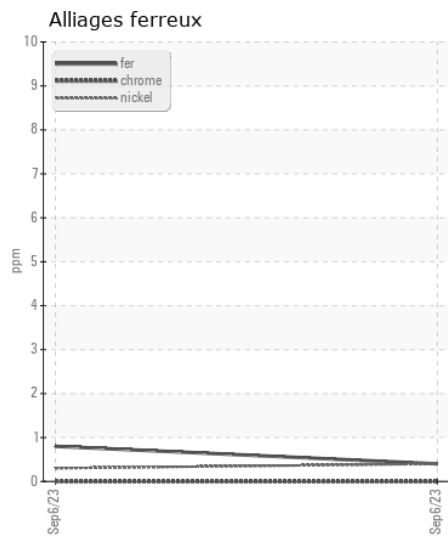
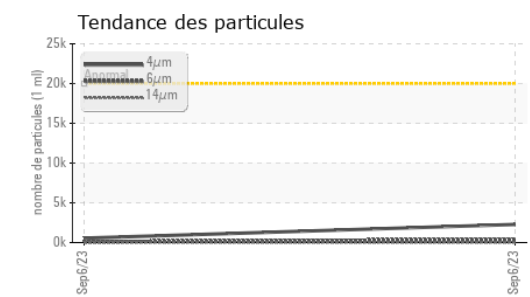
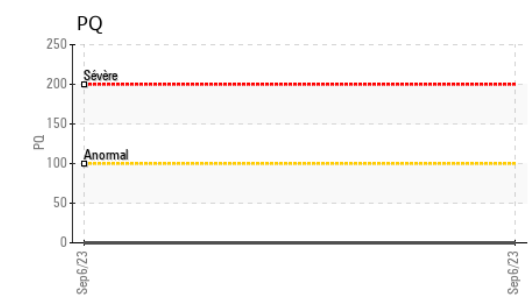
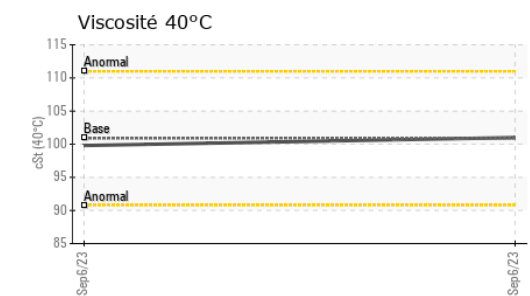
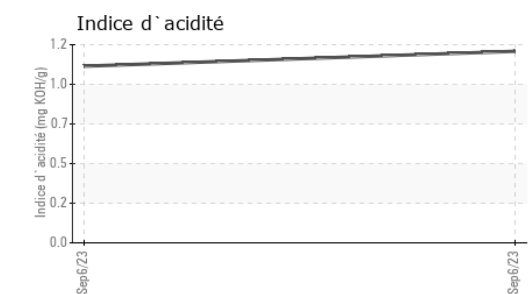
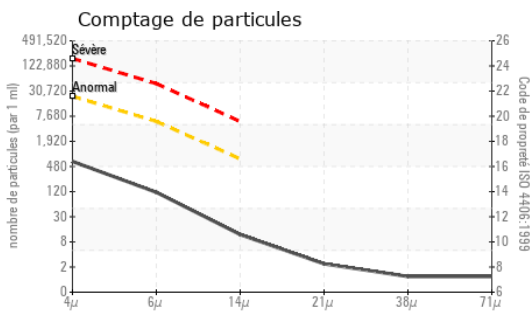
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicium	ppm	ASTM D5185(m)	>20	<b>16</b>	18	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	---
Particules >4µ		ASTM D7647	>20000	<b>558</b>	2280	---
Particules >6µ		ASTM D7647	>5000	<b>102</b>	394	---
Particules >14µ		ASTM D7647	>640	<b>10</b>	16	---
Particules >21µ		ASTM D7647	>160	<b>2</b>	4	---
Particules >38µ		ASTM D7647	>40	<b>1</b>	1	---
Particules >71µ		ASTM D7647	>10	<b>1</b>	1	---
Propreté de l'huile		ISO 4406 (c)	>21/19/16	<b>16/14/10</b>	18/16/11	---
Limon	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Débris	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Saleté	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Apparence	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Odeur	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Eau émulsifiée	scalar	Visual*	>0.2	<b>NEG</b>	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)		<b>2</b>	1	---
Bore	ppm	ASTM D5185(m)		<b>1</b>	<1	---
Baryum	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	---
Molybdène	ppm	ASTM D5185(m)		<b>0</b>	0	---
Manganèse	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	---
Magnésium	ppm	ASTM D5185(m)		<b>&lt;1</b>	1	---
Calcium	ppm	ASTM D5185(m)		<b>4</b>	4	---
Phosphore	ppm	ASTM D5185(m)		<b>353</b>	353	---
Zinc	ppm	ASTM D5185(m)		<b>8</b>	9	---
Soufre	ppm	ASTM D5185(m)		<b>325</b>	311	---
Indice d'acidité	mg KOH/g	ASTM D974*		<b>1.16</b>	1.07	---
Visc 40°C	cSt	ASTM D7279(m)	100.9	<b>101</b>	99.8	---



ISO 17025:2017  
Accredited  
Laboratory

**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**N° d'échantillon** : WC0829230  
**N° de laboratoire** : 02584553  
**Numéro unique** : 5645618  
**Analyse** : MAR 2 ( Additional Tests: PQ, PrtCount )

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.

**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: