



RAPPORT D'ANALYSE D'HUILE

USURE	NORMAL
CONTAMINATION	NORMAL
ÉTAT DU FLUIDE	NORMAL

Secteur

CANADIAN COAST GUARD

Identité de la machine

AMUNDSEN (S/N 524101596)

Composant

Moteur diesel Droit(e)

Fluide

PETRO CANADA DURON E XL 15W40 (300 LTR)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using MAR 3 test kits, this testkit includes Analytical Ferrography which provides a detailed morphological analysis of wear particles present in the fluid. this testkit includes BN to determine the suitability of the oil for continued use.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Numéro d'échant.		Client Info		WC0829227	WA0019035	AP74749
Date d'échant.		Client Info		24 Oct 2023	01 Dec 2022	05 Jun 2014
Âge d la Machine	hrs	Client Info		28456	28118	2000
Âge de l'huile	hrs	Client Info		0	3	500
Âge du filtre	hrs	Client Info		28120	3	500
Huile changée		Client Info		Not Changd	N/A	Not Changd
Filtre changé		Client Info		N/A	N/A	N/A
Statut de l'échant.				NORMAL	NORMAL	NORMAL

USURE

Component wear rates appear to be normal (unconfirmed).

Fer	ppm	ASTM D5185(m)	>100	3	2	3
Chrome	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
Titane	ppm	ASTM D5185(m)		0	<1	<1
Argent	ppm	ASTM D5185(m)	>3	<1	0	0
Aluminium	ppm	ASTM D5185(m)	>20	1	2	2
Plomb	ppm	ASTM D5185(m)	>40	<1	<1	<1
Cuivre	ppm	ASTM D5185(m)	>330	2	1	5
Étain	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Métal blanc	scalar	Visual*	NONE	NONE	---	---
Bronze	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

There is no indication of any contamination in the oil.

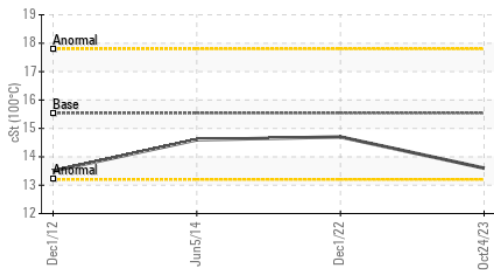
Silicium	ppm	ASTM D5185(m)	>25	2	5	2
Potassium	ppm	ASTM D5185(m)	>20	0	<1	1
Essence		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
% de suie	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	7.0	6.6	5.6
Sulfatation	Abs/.1mm	ASTM D7415*	>30	18.2	18.2	23.5
Limon	scalar	Visual*	NONE	NONE	---	---
Débris	scalar	Visual*	NONE	NONE	---	---
Saleté	scalar	Visual*	NONE	NONE	---	---
Apparence	scalar	Visual*	NORML	NORML	---	---
Odeur	scalar	Visual*	NORML	NORML	NORML	---
Eau émulsifiée	scalar	Visual*	>0.2	NEG	NEG	NEG

ÉTAT DU FLUIDE

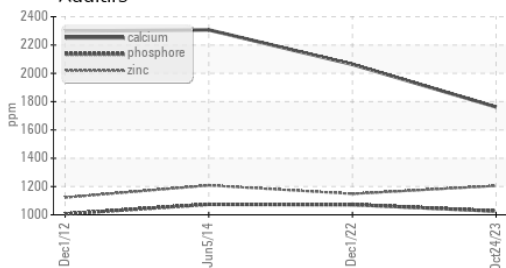
Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service (unconfirmed).

Sodium	ppm	ASTM D5185(m)		1	1	3
Bore	ppm	ASTM D5185(m)	1	36	61	78
Baryum	ppm	ASTM D5185(m)	0	<1	<1	<1
Molybdène	ppm	ASTM D5185(m)	60	30	14	<1
Manganèse	ppm	ASTM D5185(m)	0	0	<1	<1
Magnésium	ppm	ASTM D5185(m)	1010	475	207	9
Calcium	ppm	ASTM D5185(m)	1070	1762	2063	2307
Phosphore	ppm	ASTM D5185(m)	1150	1026	1072	1074
Zinc	ppm	ASTM D5185(m)	1270	1205	1148	1208
Soufre	ppm	ASTM D5185(m)	2060	3014	3272	3553
Oxydation	Abs/.1mm	ASTM D7414*	>25	14.1	12.6	16.2
Visc 100°C	cSt	ASTM D7279(m)	15.54	13.6	14.7	14.6

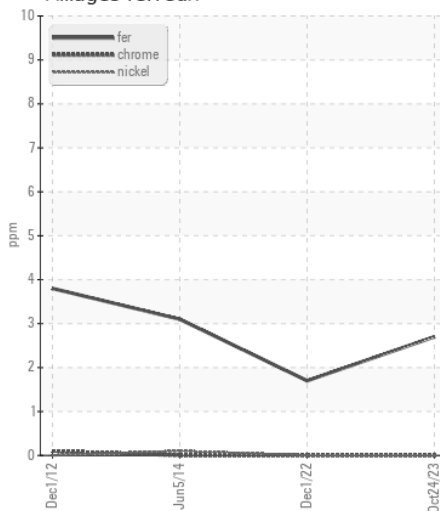
Viscosité 100°C



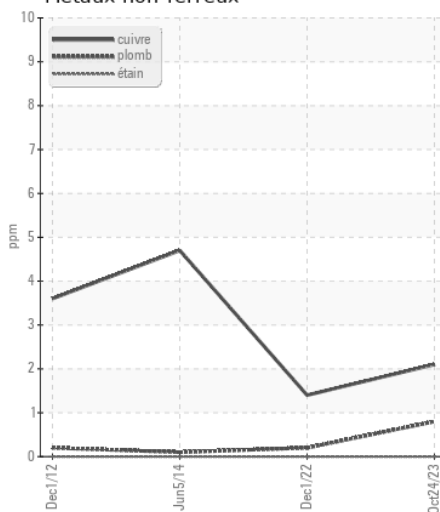
Additifs



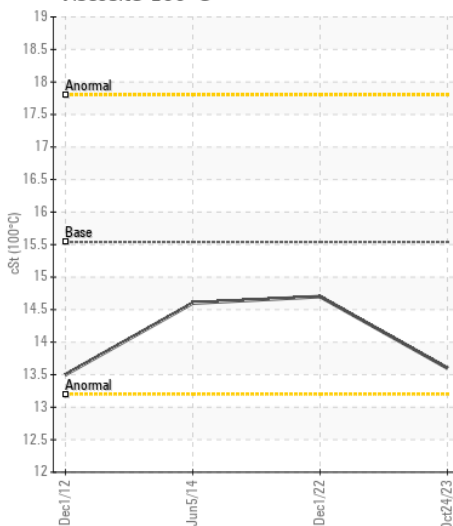
Alliages ferreux



Métaux non-ferreux



Viscosité 100°C



Laboratoire : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
N° d'échantillon : WC0829227
N° de laboratoire : 02593081
Numéro unique : 5670160
Analyse : MAR 1

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 CA G1K 7Y7
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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.