WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

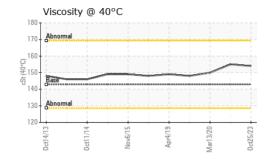
Equipment de Pont

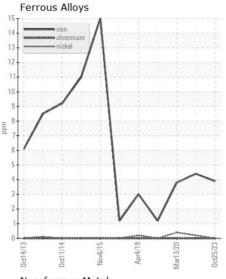
17DA02 DE Guindeau/Engrenage (S/N C-1084)

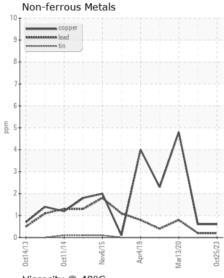
Component Front Gearbox

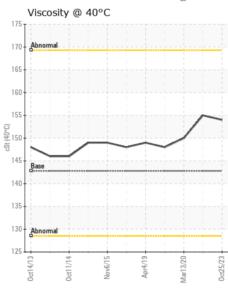
MADII	CLIC	α	/000	I TD\
MOBIL	SHC	629	(200	LIK)

	MOBIL SHC 629 (200 LTR)							
Sample Date Client Info O	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Date Control contro	Resample at the next service interval to monitor. Please contact your	Sample Number		Client Info		WC0811224	WC0549537	WC0350171
Machinish Mach	•	Sample Date		Client Info		25 Oct 2023	02 Apr 2023	13 Mar 2020
Oil Age hrs Client Info 0 0 0 0 0 0 0 0 0	,	Machine Age	hrs	Client Info		0	0	0
Di Changed Client Info NA Not Changed NA Not Cha	includes AIN to determine the sultability of the oil for continued use.	Oil Age	hrs	Client Info		0	0	0
Filter Changes Content Filter Changes Content		Filter Age	hrs	Client Info		0	0	0
Nome		Oil Changed		Client Info		N/A	Not Changd	N/A
Iron		Filter Changed		Client Info		N/A	Not Changd	N/A
Chromium ppm ASTM D566/m >10 0 0 0 0 0 0 0 0 0		Sample Status				NORMAL	NORMAL	SEVERE
Nickel ppm ASTM D5185m > 10 0 0 0 0 Titanium ppm ASTM D5185m > 0 0 0 0 Aluminum ppm ASTM D5185m > 0 0 0 0 Aluminum ppm ASTM D5185m > 65 0 0 0 Aluminum ppm ASTM D5185m > 65 0 0 0 Aluminum ppm ASTM D5185m > 65 0 0 0 Aluminum ppm ASTM D5185m > 65 0 0 0 Aluminum ppm ASTM D5185m > 65 0 0 0 Aluminum ppm ASTM D5185m > 65 0 0 0 Aluminum ppm ASTM D5185m > 80 0 0 0 ASTM D5185m > 80 0 0 ASTM D5185m > 80 0 0 0 ASTM D5185m > 80 0 0 ASTM D5185m > 80 0 0 0 ASTM D5185m > 80 0 0 ASTM D5185m > 80 0 0 0 ASTM D5185m > 80 0 0 ASTM D5185	WEAR Iron ppm ASTM D5185(m) >150						4	4
Nickel ppm ASTM D5(85m) >10 0 < 1 < 1 Titanium ppm ASTM D5(85m) > 0 0 0 0 Silver ppm ASTM D5(85m) > 0 0 0 0 Aluminum ppm ASTM D5(85m) > 5 0 0 0 Aluminum ppm ASTM D5(85m) > 5 0 0 0 Lead ppm ASTM D5(85m) > 5 0 0 0 Lead ppm ASTM D5(85m) > 65 < 1 < 1 < 1 Copper ppm ASTM D5(85m) > 8 0 0 0 Vanadium ppm ASTM D5(85m) > 8 0 0 0 Vanadium ppm ASTM D5(85m) > 8 0 0 0 Vanadium ppm ASTM D5(85m) > 8 0 0 0 0 White Metal scalar Visual* NONE NONE NONE NONE NONE Valual* NONE NONE NONE NONE NONE NONE Valual* NONE NONE NONE NONE NONE NONE NONE Valual* NONE NONE NONE NONE NONE NONE NONE Valual* NONE NONE NONE NONE NONE NONE NONE Silt scalar Visual* NONE NONE NONE NONE NONE Debris scalar Visual* NONE NORM NORM	All component wear rates are normal	Chromium		ASTM D5185(m)	>10	0	0	0
Titanium	All component wear rates are normal.	Nickel		ASTM D5185(m)	>10	0	<1	<1
Silver		Titanium				0	0	0
Aluminum ppm ASTN DS185m 55 0 0 0 1		Silver		ASTM D5185(m)		<1	0	0
Copper		Aluminum	ppm	ASTM D5185(m)	>5	0	0	<1
Tin		Lead	ppm	ASTM D5185(m)	>65	<1	<1	<1
Vanadium ppm ASTM DS185(m) 0 0 0 0 0 0 0 0 0 0 0		Copper	ppm	ASTM D5185(m)	>80	<1	<1	5
White Metal Scalar Visual* NONE NO		Tin	ppm	ASTM D5185(m)	>8	0	0	0
Yellow Metal scalar Visual* NONE N		Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon ppm ASTM D5185(m) >20 17 14 1 1 1 1 1 1 1 1		White Metal	scalar	Visual*	NONE	NONE	VLITE	NONE
Potassium ppm ASTM D5185(m) >20 0 <1 <1		Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Water	CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>20	17	14	1
Water WC Method >0.2 NEG NEG NEG	There is no indication of any contamination in the oil	Potassium	ppm	ASTM D5185(m)	>20	0	<1	<1
Debris Scalar Visual* NONE NORML NORM	There is no maleation of any containing act in the on.	Water		WC Method	>0.2	NEG	NEG	NEG
Sand/Dirt scalar Visual* NONE NONE NONE Appearance scalar Visual* NORML		Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance Scalar Visual* NORML NORM		Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Odor		Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Emulsified Water scalar Visual* >0.2 NEG NEG NEG		Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Sodium ppm ASTM D5185(m) C1 C1 C2		Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Boron ppm ASTM D5185(m) 0 0 1		Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Barium ppm ASTM D5185(m) c1 0 c1 Molybdenum ppm ASTM D5185(m) 0 0 0 Manganese ppm ASTM D5185(m) 0 0 0 Magnesium ppm ASTM D5185(m) 0 0 0 Magnesium ppm ASTM D5185(m) 0 0 c1 Calcium ppm ASTM D5185(m) c1 0 c1 Phosphorus ppm ASTM D5185(m) 449 513 78 Zinc ppm ASTM D5185(m) c1 c1 2 Sulfur ppm ASTM D5185(m) 68 25 2086	FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		<1	<1	2
Molybdenum ppm ASTM D5185(m) <1	The condition of the oil is acceptable for the time in service	Boron	ppm	ASTM D5185(m)		0	0	1
Manganese ppm ASTM D5185(m) 0 0 0 Magnesium ppm ASTM D5185(m) 0 0 <1		Barium	ppm	ASTM D5185(m)		<1	0	<1
Magnesium ppm ASTM D5185(m) 0 0 <1		Molybdenum	ppm	ASTM D5185(m)		0	0	0
Calcium ppm ASTM D5185(m) <1		Manganese	ppm	ASTM D5185(m)		0	0	0
Phosphorus ppm ASTM D5185(m) 449 513 78 Zinc ppm ASTM D5185(m) <1		Magnesium	ppm	ASTM D5185(m)		0	0	<1
Zinc ppm ASTM D5185(m) <1		Calcium	ppm	ASTM D5185(m)		<1	0	<1
Sulfur ppm ASTM D5185(m) 68 25 2086		Phosphorus	ppm	ASTM D5185(m)		449	513	78
		Zinc	ppm	ASTM D5185(m)		<1	<1	2
Visc @ 40°C cSt ASTM D7279(m) 142.8 155 150				, ,		68		2086
		Visc @ 40°C	cSt	ASTM D7279(m)	142.8	154	155	150











CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Lab Number : 02593403

: WC0811224 Unique Number : 5670482 Test Package : MAR 1

Received **Tested** Diagnosed

: 01 Nov 2023 : 01 Nov 2023

: 01 Nov 2023 - Wes Davis

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:

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Validity of results and interpretation are based on the sample and information as supplied.