



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
HL23216 - Port Shaft Thrust Bearing
Component
Port Thrust Bearing
Fluid
ESSO TERESSTIC ISO 100 (168 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0929737	WC0709119	WC
Sample Date		Client Info		07 Jun 2024	21 Mar 2023	25 Jun 2022
Machine Age	hrs	Client Info		0	0	71679
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	Not Changd
Filter Changed		Client Info		None	N/A	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>85	11	14	12
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>40	0	<1	<1
Lead	ppm	ASTM D5185(m)	>60	0	<1	<1
Copper	ppm	ASTM D5185(m)	>7	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>40	7	13	11
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	▲ LIGHT	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

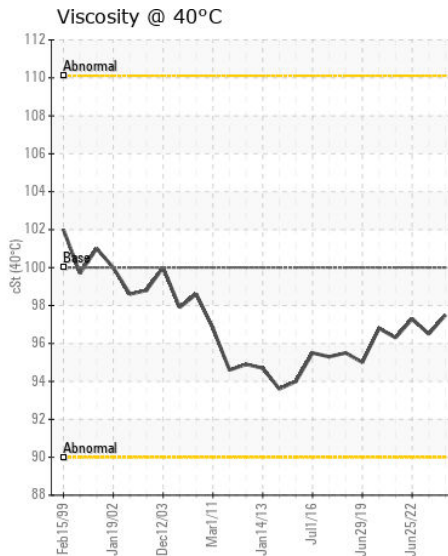
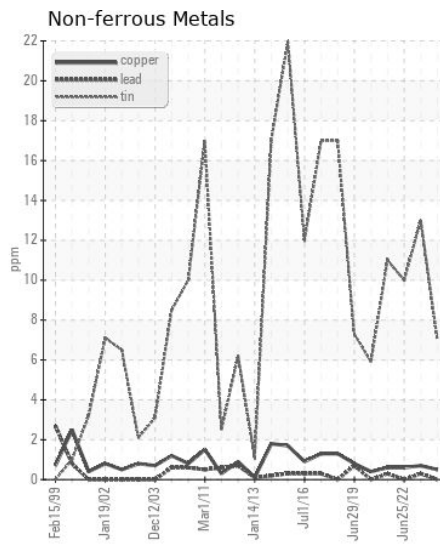
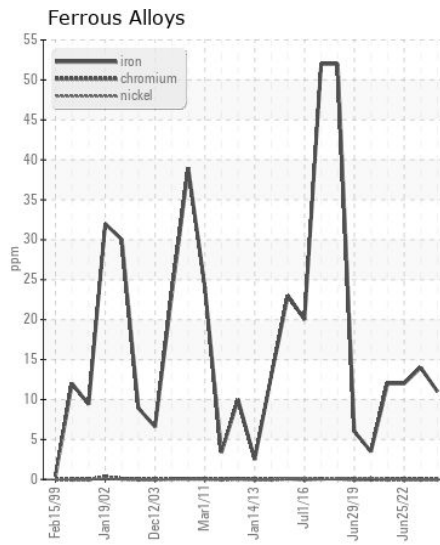
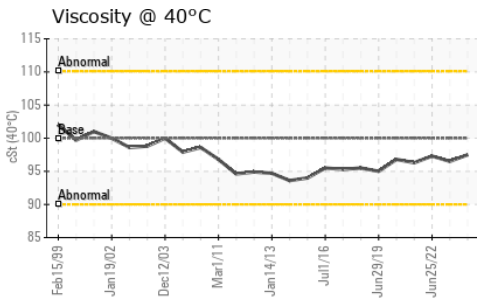
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	<1	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	<1	0	0
Water		WC Method	>2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		0	0	0
Boron	ppm	ASTM D5185(m)	.2	0	0	0
Barium	ppm	ASTM D5185(m)	0	<1	1	1
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1.2	0	0	0
Calcium	ppm	ASTM D5185(m)	.2	<1	<1	2
Phosphorus	ppm	ASTM D5185(m)	2.4	6	9	12
Zinc	ppm	ASTM D5185(m)	1.9	6	10	10
Sulfur	ppm	ASTM D5185(m)	2250	5192	4181	4044
Visc @ 40°C	cSt	ASTM D7279(m)	100	97.5	96.5	97.3



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0929737
Lab Number : 02640868
Unique Number : 5798407
Test Package : MAR 1 (Additional Tests: BottomAnalysis, FilterPatch)

Received : 10 Jun 2024
Tested : 11 Jun 2024
Diagnosed : 11 Jun 2024 - Kevin Marson

CANADIAN COAST GUARD
 CCGS HENRY LARSEN, P.O. BOX 5667, 280 SOUTHSIDE RD.
 ST. JOHN'S, NL
 CA A1C 5X1
 Contact: Chief Engineer
 henrylarsence@ccgs-ngcc.gc.ca
 T: (709)687-5198
 F: (709)685-3187

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.