



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Machine Id
ODIM MAIN HPU
Component
Main Hydraulic System
Fluid
SHELL TELLUS ARTIC 32 (400 LTR)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0786042	WC0685540	---
Sample Date		Client Info		27 Oct 2023	05 May 2022	---
Machine Age	yrs	Client Info		13	12	---
Oil Age	yrs	Client Info		2	1	---
Filter Age	yrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	Not Changd	---
Filter Changed		Client Info		Not Changd	Not Changd	---
Sample Status				ATTENTION	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>20	1	1	---
Chromium	ppm	ASTM D5185(m)	>10	0	0	---
Nickel	ppm	ASTM D5185(m)	>10	<1	0	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)		<1	0	---
Aluminum	ppm	ASTM D5185(m)	>10	<1	<1	---
Lead	ppm	ASTM D5185(m)	>10	<1	0	---
Copper	ppm	ASTM D5185(m)	>75	1	1	---
Tin	ppm	ASTM D5185(m)	>10	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

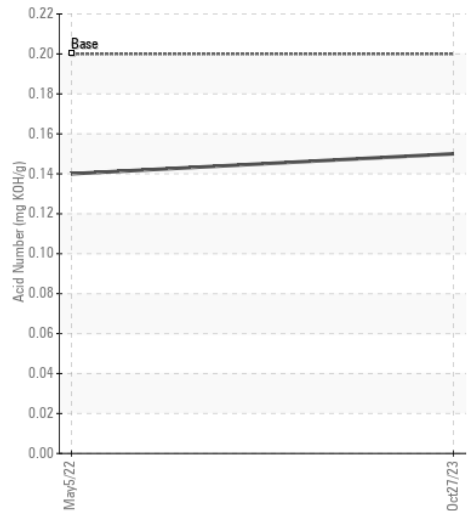
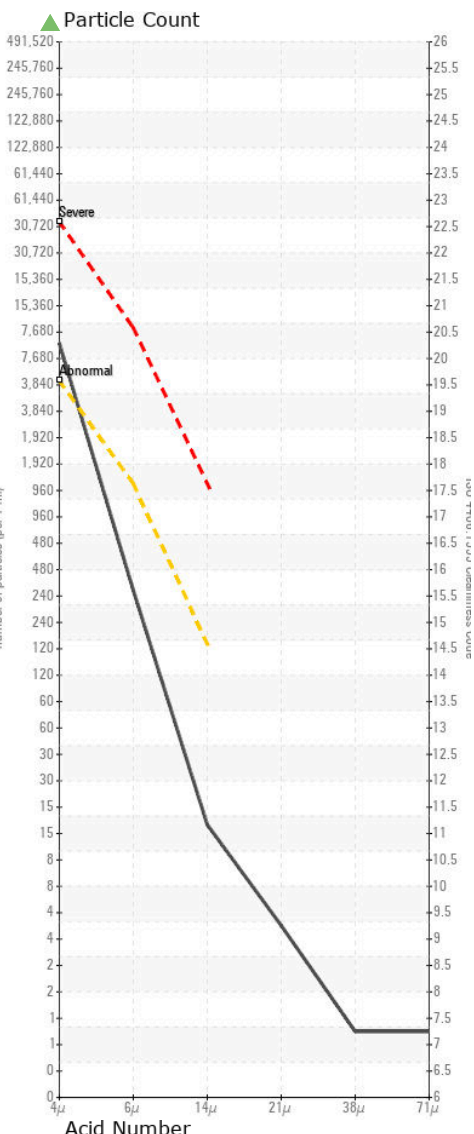
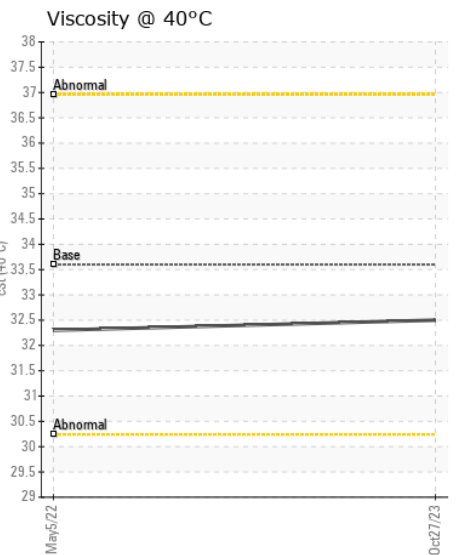
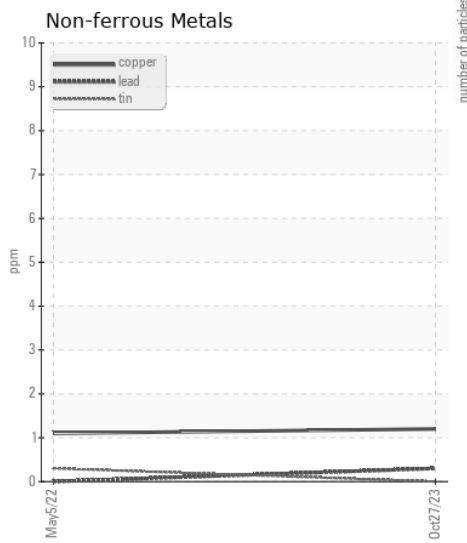
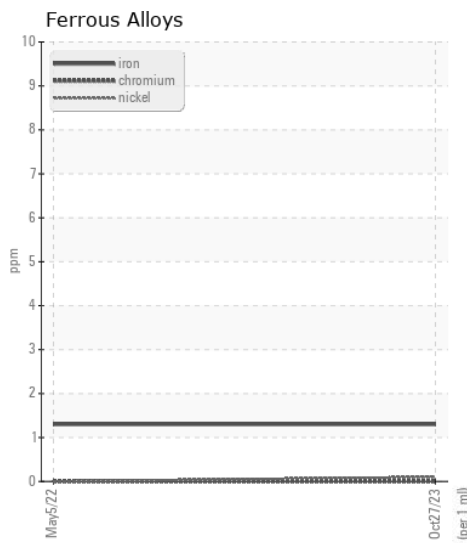
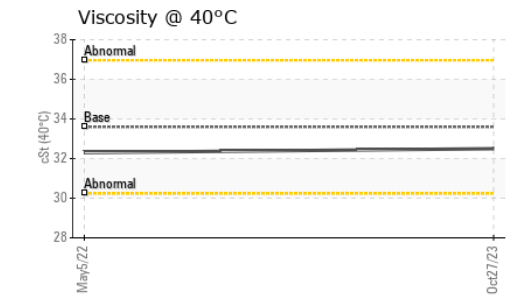
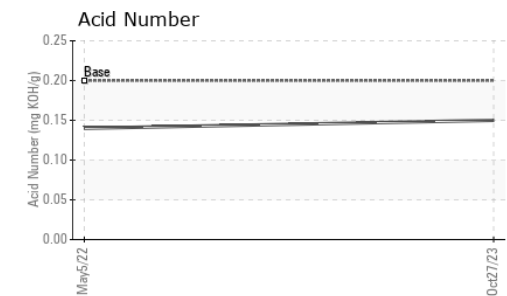
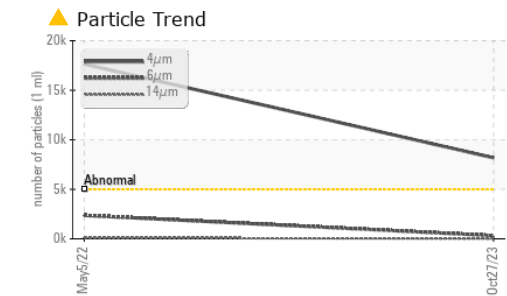
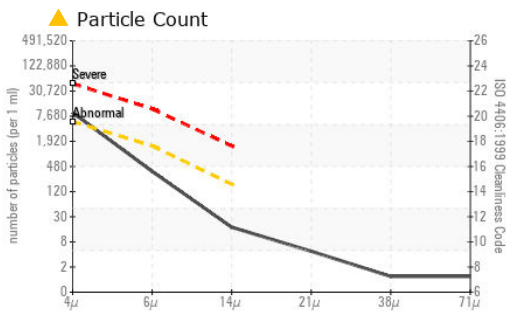
There is a light amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185(m)	>20	15	16	---
Potassium	ppm	ASTM D5185(m)	>20	0	<1	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>5000	8177	17637	---
Particles >6µm		ASTM D7647	>1300	322	2369	---
Particles >14µm		ASTM D7647	>160	15	86	---
Particles >21µm		ASTM D7647	>40	4	15	---
Particles >38µm		ASTM D7647	>10	1	1	---
Particles >71µm		ASTM D7647	>3	1	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	20/16/11	21/18/14	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	VLITE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<1	0	---
Boron	ppm	ASTM D5185(m)	5	<1	<1	---
Barium	ppm	ASTM D5185(m)	0	<1	0	---
Molybdenum	ppm	ASTM D5185(m)	0	0	0	---
Manganese	ppm	ASTM D5185(m)	0	0	<1	---
Magnesium	ppm	ASTM D5185(m)	0	<1	<1	---
Calcium	ppm	ASTM D5185(m)	5	4	4	---
Phosphorus	ppm	ASTM D5185(m)	600	585	652	---
Zinc	ppm	ASTM D5185(m)	50	107	107	---
Sulfur	ppm	ASTM D5185(m)	900	617	632	---
Acid Number (AN)	mg KOH/g	ASTM D974*	0.20	0.15	0.14	---
Visc @ 40°C	cSt	ASTM D7279(m)	33.6	32.5	32.3	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0786042
Lab Number : 02594601
Unique Number : 5671680
Test Package : MAR 2
Received : 07 Nov 2023
Tested : 08 Nov 2023
Diagnosed : 08 Nov 2023 - Kevin Marson

Canadian Coast Guard - Judy LaMarsh
 P.O. Box 1000
 Prescott, ON
 CA K0E 1T0
 Contact: Judy LaMarsh
 judylamarshce@ccgs-ngcc.gc.ca

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.

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F: