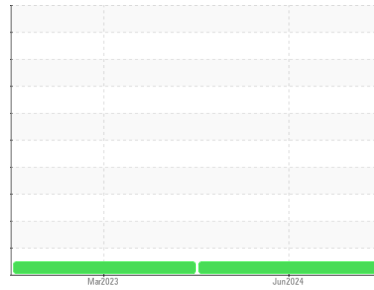




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
[GH-9141A]
 Machine Id
170831 HA
 Component
Unknown Component
 Fluid
{not provided} (--- GAL)

DIAGNOSIS

Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please provide more complete information on your next sample.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

Viscosity of sample indicates oil is within ISO 32 range, advise investigate. The AN level is acceptable for this fluid. The condition of the sample is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PP	PP	---
Sample Date	Client Info			13 Jun 2024	07 Mar 2023	---
Machine Age	hrs	Client Info		0	0	---
Oil Age	hrs	Client Info		0	0	---
Oil Changed	Client Info			N/A	N/A	---
Sample Status				NORMAL	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method			NEG	NEG	---

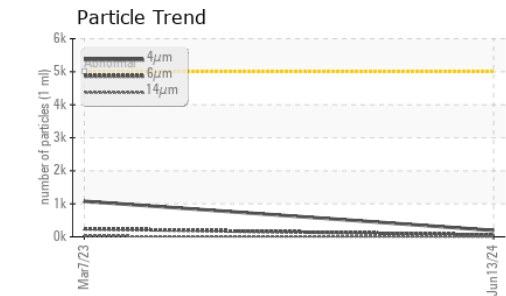
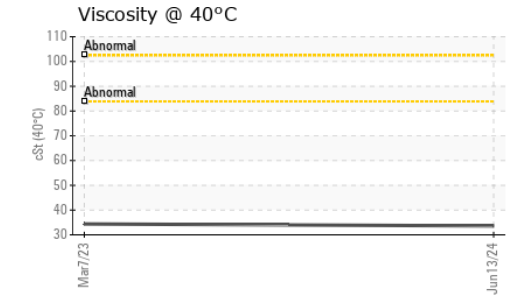
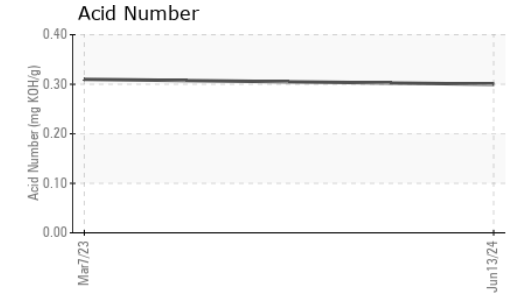
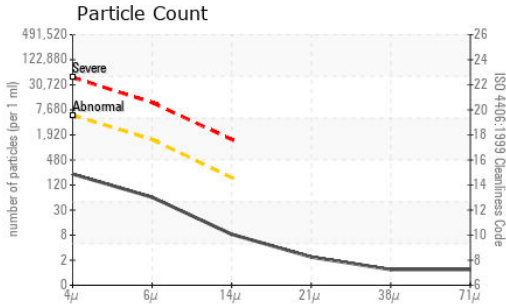
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0	0	---
Iron	ppm	ASTM D5185(m)		6	3	---
Chromium	ppm	ASTM D5185(m)		0	0	---
Nickel	ppm	ASTM D5185(m)		0	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)		0	0	---
Aluminum	ppm	ASTM D5185(m)		0	0	---
Lead	ppm	ASTM D5185(m)		<1	<1	---
Copper	ppm	ASTM D5185(m)		7	7	---
Tin	ppm	ASTM D5185(m)		0	<1	---
Antimony	ppm	ASTM D5185(m)		0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
Beryllium	ppm	ASTM D5185(m)		0	0	---
Cadmium	ppm	ASTM D5185(m)		0	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<1	<1	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)		0	0	---
Manganese	ppm	ASTM D5185(m)		0	<1	---
Magnesium	ppm	ASTM D5185(m)		6	6	---
Calcium	ppm	ASTM D5185(m)		41	42	---
Phosphorus	ppm	ASTM D5185(m)		226	242	---
Zinc	ppm	ASTM D5185(m)		253	247	---
Sulfur	ppm	ASTM D5185(m)		2480	2635	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		<1	2	---
Sodium	ppm	ASTM D5185(m)		<1	<1	---
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	---



OIL ANALYSIS REPORT



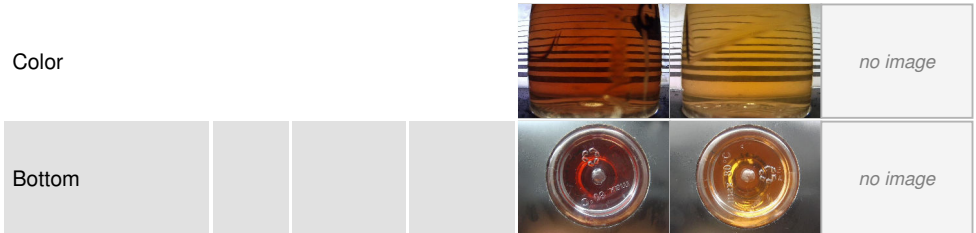
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	194	1077	---
Particles >6µm	ASTM D7647	>1300	54	242	---
Particles >14µm	ASTM D7647	>160	7	19	---
Particles >21µm	ASTM D7647	>40	2	8	---
Particles >38µm	ASTM D7647	>10	1	1	---
Particles >71µm	ASTM D7647	>3	1	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	15/13/10	17/15/11	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974*		0.30	0.31	---

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar Visual*	NONE	NONE	NONE	---
Precipitate	scalar Visual*	NONE	NONE	NONE	---
Silt	scalar Visual*	NONE	NONE	NONE	---
Debris	scalar Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar Visual*	NONE	NONE	NONE	---
Appearance	scalar Visual*	NORML	NORML	NORML	---
Odor	scalar Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar Visual*		NEG	NEG	---
Free Water	scalar Visual*		NEG	NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D7279(m)		33.6	34.4	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PP
Lab Number : 02641962
Unique Number : 5799501
Test Package : IND 2 (Additional Tests: PQ, PRTCOUNT)

HIBERNIA MGMT & DEVELOPMENT CO. LTD
 SUITE 1000,, 100 NEW GOWER STREET
 ST.JOHNS, NL
 CA A1C 6K3
 Contact: Michelle Jefford
 michelle.a.jefford@exxonmobil.com
 T: (709)778-7205
 F: (709)753-2728

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.