

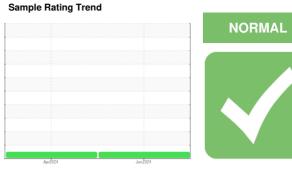
## **OIL ANALYSIS REPORT**

Area

# Chem-Ecol [GH-9151A] A2404111

Unknown Component

{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. Please provide more complete information on your next sample. 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.

#### 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.

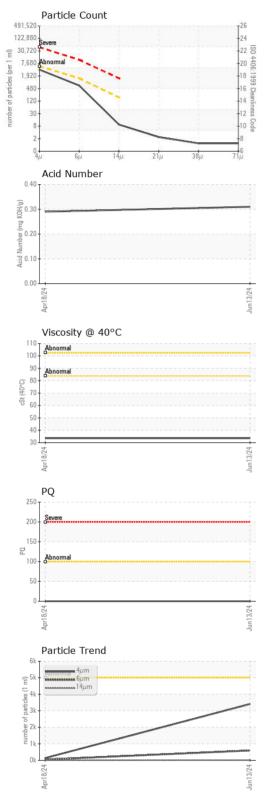
#### **Fluid Condition**

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 INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PP	PP	
Sample Date		Client Info		13 Jun 2024	18 Apr 2024	
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	V	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	6	
Chromium	ppm	ASTM D5185(m)		0	0	
Nickel	ppm	ASTM D5185(m)		0	0	
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	0	
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	0	
Magnesium	ppm	ASTM D5185(m)		6	6	
Calcium	ppm	ASTM D5185(m)		42	42	
Phosphorus	ppm	ASTM D5185(m)		221	218	
Zinc	ppm	ASTM D5185(m)		255	251	
Sulfur	ppm	ASTM D5185(m)		2485	2594	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		<1	<1	
Sodium	ppm	ASTM D5185(m)		<1	0	
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	



## **OIL ANALYSIS REPORT**



FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	3403	137	
Particles >6µm		ASTM D7647	>1300	591	45	
Particles >14µm		ASTM D7647	>160	8	5	
Particles >21µm		ASTM D7647	>40	2	1	
Particles >38µm		ASTM D7647	>10	1	1	
Particles >71μm		ASTM D7647	>3	1	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/16/10	14/13/10	
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		0.31	0.29	
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	33.6	
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				9		no image
Bottom						no image



CALA ISO 17025:2017 Accredited Laboratory

Laboratory

Sample No.

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Lab Number : 02641965 Unique Number : 5799504

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : PP

Received : 14 Jun 2024 **Tested** Diagnosed

: 18 Jun 2024 : 18 Jun 2024 - Kevin Marson 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

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.

F: (709)753-2728 Contact/Location: Michelle Jefford - HIBSTJ