

# **OIL ANALYSIS REPORT**

Area CWPI **ONTARIO COH - ONTARIO** 

Gearbox Fluid PHILLIPS 150 (--- GAL)

#### Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

#### Wear

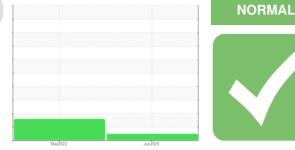
All component wear rates are normal. The ferrography results are normal indicating no abnormal wear in the system.

#### Contaminants

There is no indication of any contamination in the oil.

### **Oil Condition**

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



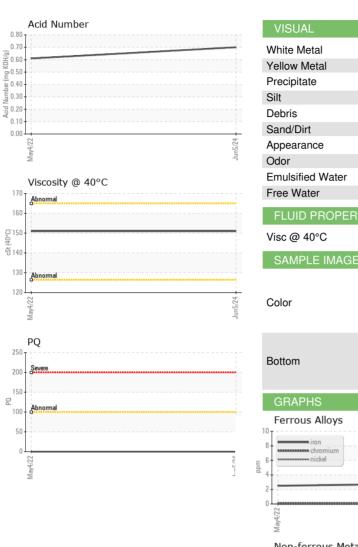
Sample Rating Trend

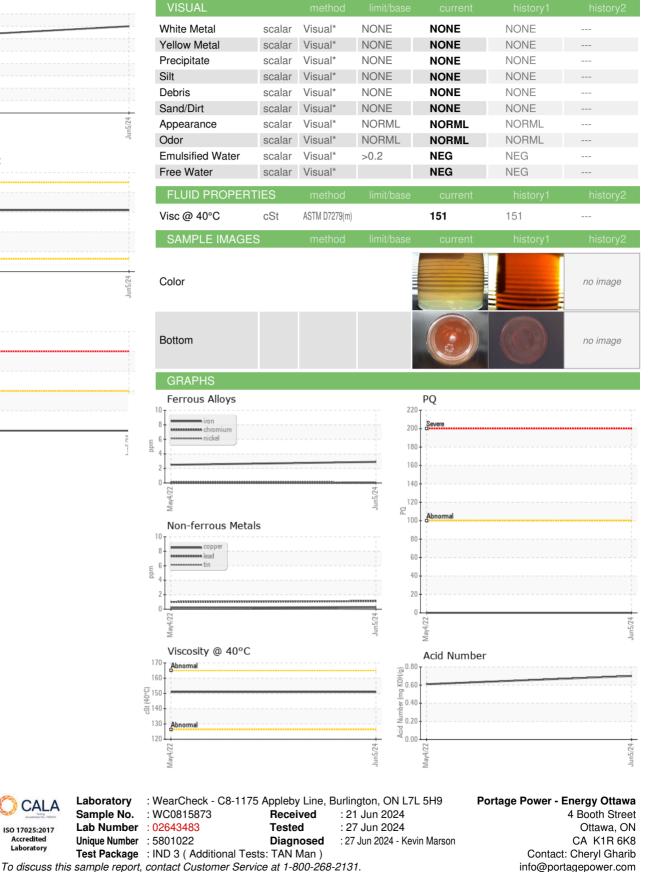


SAMPLE INFORM	<b>MATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0815873	WC0612309	
Sample Date		Client Info		05 Jun 2024	04 May 2022	
Machine Age	yrs	Client Info		18	16	
Oil Age	yrs	Client Info		3	1	
Oil Changed		Client Info		N/A	Not Changd	
Sample Status				NORMAL	ABNORMAL	
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0	0	
Iron	ppm	ASTM D5185(m)	>200	3	2	
Chromium	ppm	ASTM D5185(m)	>15	0	0	
Nickel	ppm	ASTM D5185(m)	>15	<1	<1	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)		<1	0	
Aluminum	ppm	ASTM D5185(m)	>25	<1	0	
Lead	ppm	ASTM D5185(m)	>100	1	1	
Copper	ppm	ASTM D5185(m)	>200	<1	<1	
Tin	ppm	ASTM D5185(m)	>25	0	<1	
Antimony	ppm	ASTM D5185(m)	>5	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)		28	33	
Barium	ppm	ASTM D5185(m)		<1	0	
Molybdenum	ppm	ASTM D5185(m)		0	0	
Manganese	ppm	ASTM D5185(m)		0	0	
Magnesium	ppm	ASTM D5185(m)		<1	0	
Calcium	ppm	ASTM D5185(m)		1	2	
Phosphorus	ppm	ASTM D5185(m)		240	278	
Zinc	ppm	ASTM D5185(m)		2	4	
Sulfur	ppm	ASTM D5185(m)		6054	6365	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	2	2	
Sodium	ppm	ASTM D5185(m)		<1	0	
Potassium	ppm	ASTM D5185(m)	>20	<1	1	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		0.70	0.61	



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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.

Report Id: ENE271OTT [WCAMIS] 02643483 (Generated: 06/27/2024 16:18:29) Rev: 2

CALA

ISO 17025:2017 Accredited

Laboratory

Contact/Location: Cheryl Gharib - ENE271OTT

T:

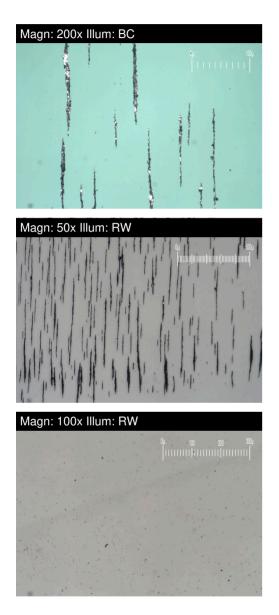
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## FERROGRAPHY REPORT

#### Area **CWPI** Machine Id **ONTARIO COH - ONTARIO** Component Gearbox

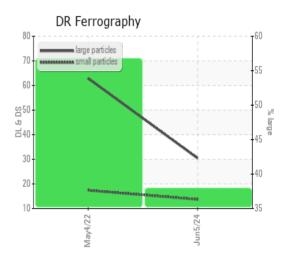
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DR-FERROGRAP	ΡΗΥ	method	limit/base	current	history1	history2
Large Particles		DR-Ferr*		30.4	62.9	
Small Particles		DR-Ferr*		13.7	17.4	
Total Particles		DR-Ferr*	>	44.1	80.3	
Large Particles Percentage	%	DR-Ferr*		37.9	56.7	
Severity Index		DR-Ferr*		508	2862	
FERROGRAPHY		method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10	ASTM D7684*		3	3	
Ferrous Sliding	Scale 0-10	ASTM D7684*				
Ferrous Cutting	Scale 0-10	ASTM D7684*			<b></b> 1	
Ferrous Rolling	Scale 0-10	ASTM D7684*		1	1	
Ferrous Break-in	Scale 0-10	ASTM D7684*				
Ferrous Spheres	Scale 0-10	ASTM D7684*				
Ferrous Black Oxides	Scale 0-10	ASTM D7684*				
Ferrous Red Oxides	Scale 0-10	ASTM D7684*				
Ferrous Corrosive	Scale 0-10	ASTM D7684*			1	
Ferrous Other	Scale 0-10	ASTM D7684*				
Nonferrous Rubbing	Scale 0-10	ASTM D7684*				
Nonferrous Sliding	Scale 0-10	ASTM D7684*				
Nonferrous Cutting	Scale 0-10	ASTM D7684*				
Nonferrous Rolling	Scale 0-10	ASTM D7684*				
Nonferrous Other	Scale 0-10	ASTM D7684*				
Carbonaceous Material	Scale 0-10	ASTM D7684*				
Lubricant Degradation	Scale 0-10	ASTM D7684*				
Sand/Dirt	Scale 0-10	ASTM D7684*		1	1	
Fibres	Scale 0-10	ASTM D7684*				
Spheres	Scale 0-10	ASTM D7684*				
Other	Scale 0-10	ASTM D7684*		1	1	

#### WEAF

All component wear rates are normal. The ferrography results are normal indicating no abnormal wear in the system.



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