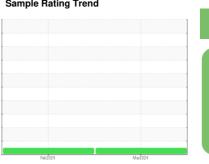


# **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



Machine Id

# PRIMER OVEN DRIVE

Component **Gearbox** 

SHELL OMALA 150 (--- GAL)

	JOS	

#### 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.

			Feb 2024	Mar2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC943439	СВ	
Sample Date		Client Info		23 Mar 2024	21 Feb 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	
CONTAMINATIO	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	51	17	
Chromium	ppm	ASTM D5185(m)	>15	0	0	
Nickel	ppm	ASTM D5185(m)	>15	0	<1	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)		0	0	
Aluminum	ppm	ASTM D5185(m)	>25	1	1	
Lead	ppm	ASTM D5185(m)	>100	2	4	
Copper	ppm	ASTM D5185(m)	>200	25	40	
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)	6.2	1	6	
Barium	ppm	ASTM D5185(m)	0.0	2	1	
Molybdenum	ppm	ASTM D5185(m)	0	0	0	
Manganese	ppm	ASTM D5185(m)		2	1	
Magnesium	ppm	ASTM D5185(m)	0	2	<1	
Calcium	ppm	ASTM D5185(m)	0.0	<1	8	
Phosphorus	ppm	ASTM D5185(m)	512	195	108	
Zinc	ppm	ASTM D5185(m)	3.8	55	32	
Sulfur	ppm	ASTM D5185(m)	8167	8162	8706	
Lithium	ppm	ASTM D5185(m)		1	2	
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	<1	4	
Sodium	ppm	ASTM D5185(m)		<1	<1	
Potassium	ppm	ASTM D5185(m)	>20	0	<1	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
	140114	407440074			0.04	

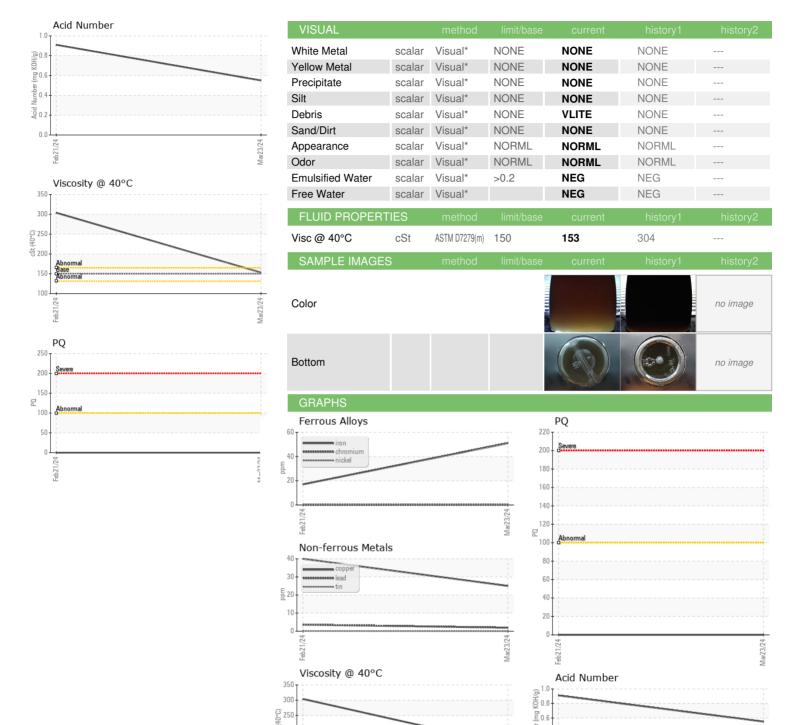
Acid Number (AN) mg KOH/g ASTM D974\*

0.91

0.55



## **OIL ANALYSIS REPORT**







Sample No. Lab Number

Laboratory

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC943439 : 02627127 Unique Number : 5760259

충 200

150 100

Received **Tested** 

: 05 Apr 2024 : 11 Apr 2024 Diagnosed

: 11 Apr 2024 - Kevin Marson

은 0.4

Test Package : IND 3 (Additional Tests: TAN Man) 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.

TOYOTA MOTOR MANUFACT.

1055 FOUNTAIN STREET N. CAMBRIDGE, ON **CA N3H 5K2** Contact: mike clappison mike.clappison@toyota.com

> T: (519)212-5023 F: (519)653-9638



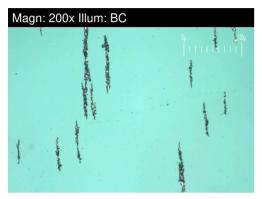
# **FERROGRAPHY REPORT**

Machine Id

# PRIMER OVEN DRIVE

Component **Gearbox** 

SHELL OMALA 150 (--- GAL)

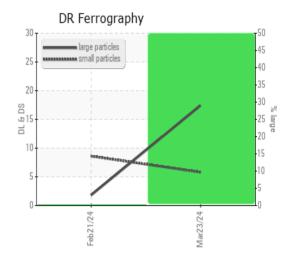






DR-FERROGRAP	ΉY	method	limit/base	current	history1	history2
Large Particles		DR-Ferr*		17.4	1.8	
Small Particles		DR-Ferr*		5.8	8.6	
Total Particles		DR-Ferr*	>	23.2	10.4	
Large Particles Percentage	%	DR-Ferr*		50	0	
Severity Index		DR-Ferr*		202	12	
FERROGRAPHY		method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10	ASTM D7684*		3	3	
Ferrous Sliding	Scale 0-10	ASTM D7684*				
Ferrous Cutting	Scale 0-10	ASTM D7684*				
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*				
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	

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



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