



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
A BURG E2
 Component
Rear Differential
 Fluid
GEAR OIL SAE 80W90 (19 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0867252	WC0760633	WC0661113
Sample Date		Client Info		09 Apr 2024	17 Apr 2023	07 Apr 2022
Machine Age	kms	Client Info		121623	107899	94721
Oil Age	kms	Client Info		83740	70562	57384
Filter Age	kms	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>500	147	148	183
Chromium	ppm	ASTM D5185(m)	>10	1	1	2
Nickel	ppm	ASTM D5185(m)	>10	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		<1	<1	<1
Silver	ppm	ASTM D5185(m)		0	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	2	2	2
Lead	ppm	ASTM D5185(m)	>25	0	<1	<1
Copper	ppm	ASTM D5185(m)	>100	3	3	3
Tin	ppm	ASTM D5185(m)	>10	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

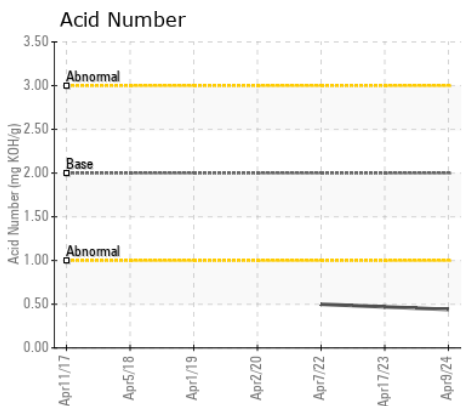
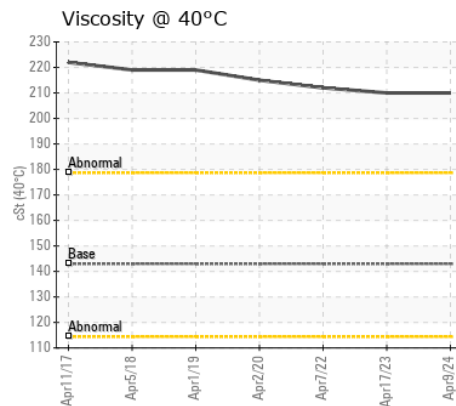
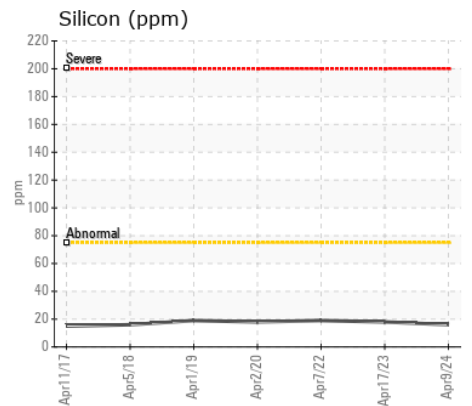
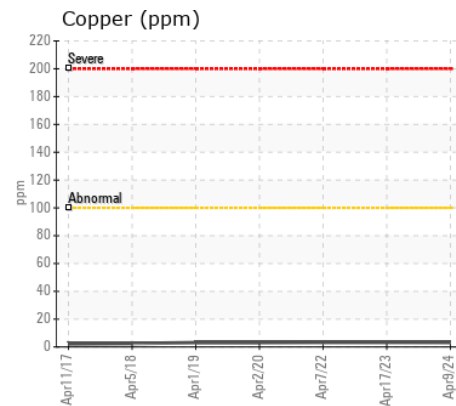
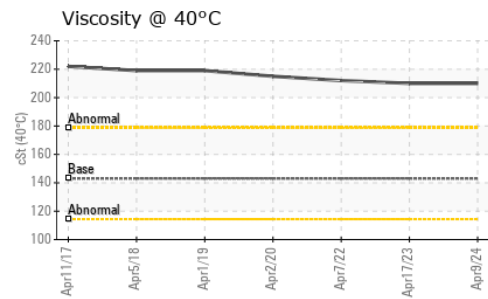
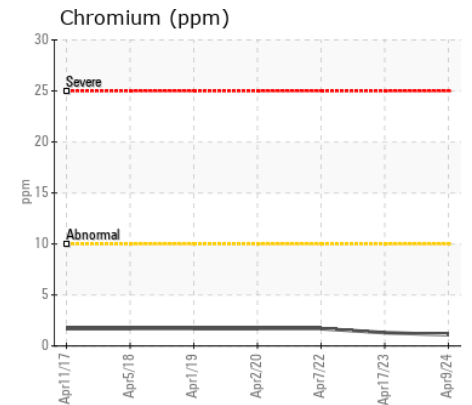
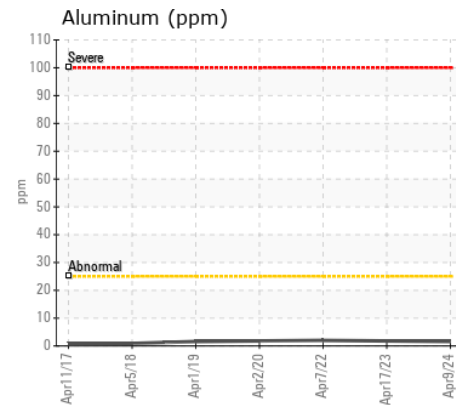
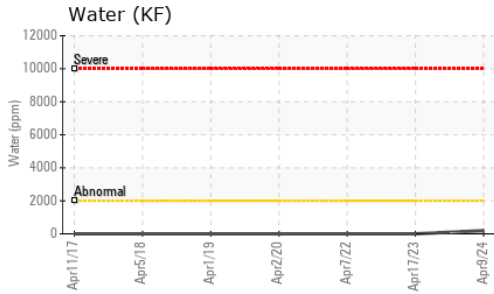
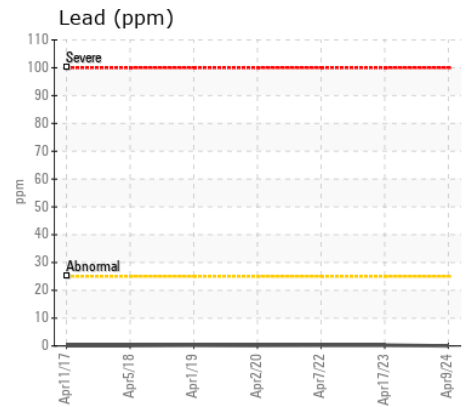
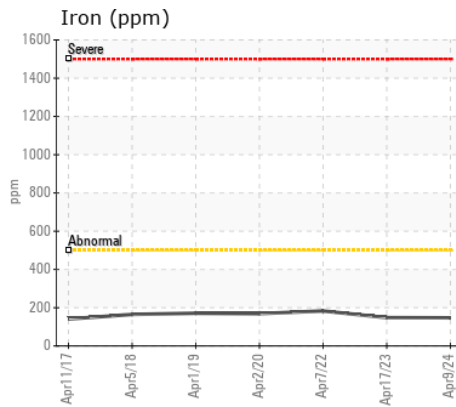
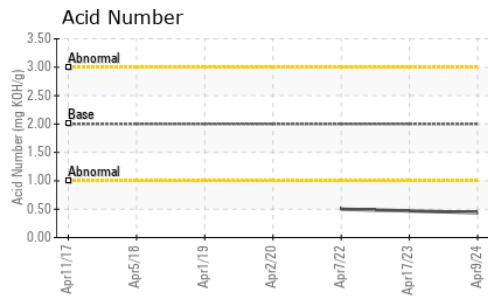
The water content is negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>75	16	18	19
Potassium	ppm	ASTM D5185(m)	>20	5	6	6
Water	%	ASTM D6304*	>.2	0.019	---	---
ppm Water	ppm	ASTM D6304*	>2000	194	---	---
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	VLITE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>.2	.2%	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)	>170	6	6	6
Boron	ppm	ASTM D5185(m)	400	25	27	31
Barium	ppm	ASTM D5185(m)	200	4	4	4
Molybdenum	ppm	ASTM D5185(m)	12	3	4	5
Manganese	ppm	ASTM D5185(m)		16	18	19
Magnesium	ppm	ASTM D5185(m)	12	26	26	29
Calcium	ppm	ASTM D5185(m)	150	122	138	152
Phosphorus	ppm	ASTM D5185(m)	1650	419	488	489
Zinc	ppm	ASTM D5185(m)	125	98	106	120
Sulfur	ppm	ASTM D5185(m)	22500	14597	15487	15096
Acid Number (AN)	mg KOH/g	ASTM D974*	2.00	0.44	0.47	0.50
Visc @ 40°C	cSt	ASTM D7279(m)	143	210	210	212



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0867252
Lab Number : 02628976
Unique Number : 5762108
Test Package : MOB 2 (Additional Tests: KF, TAN Man)

Received : 15 Apr 2024
Tested : 17 Apr 2024
Diagnosed : 17 Apr 2024 - Wes Davis

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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.