



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
LAKESHORE E4
Component
Rear Differential
Fluid
GEAR OIL SAE 80W90 (20 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0815798	AP108384	AP107546
Sample Date		Client Info		26 Jun 2023	10 Jun 2020	10 Jun 2019
Machine Age	kms	Client Info		35718	29584	27360
Oil Age	kms	Client Info		1888	12750	10526
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	99	100	95
Chromium	ppm	ASTM D5185(m)	>10	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>10	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)		0	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	1	<1	<1
Lead	ppm	ASTM D5185(m)	>25	<1	0	0
Copper	ppm	ASTM D5185(m)	>100	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

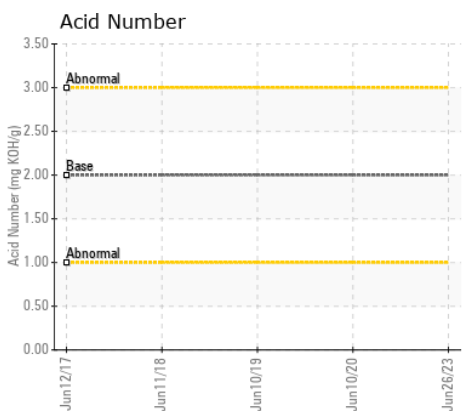
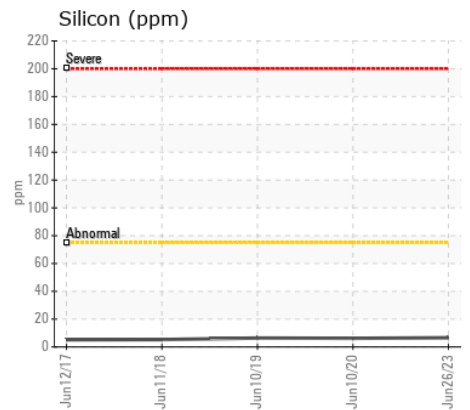
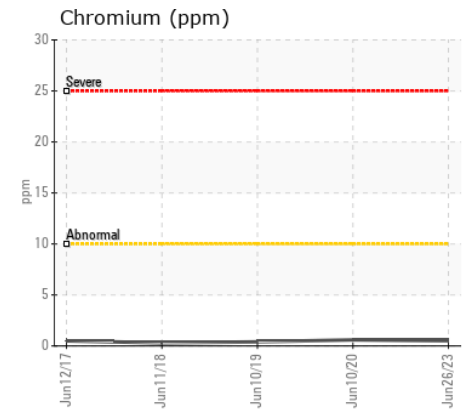
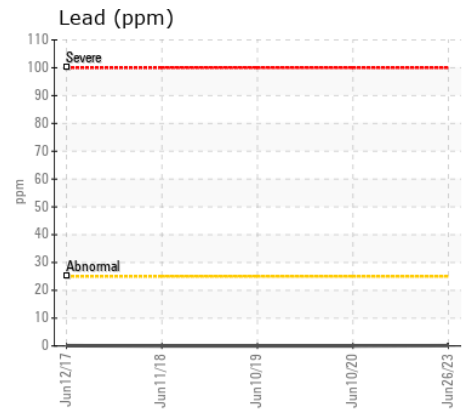
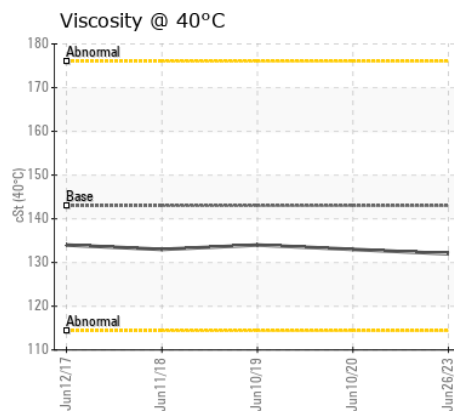
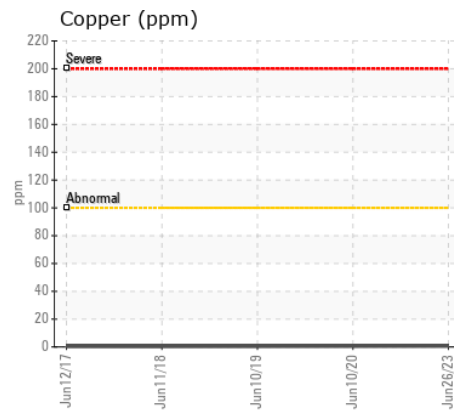
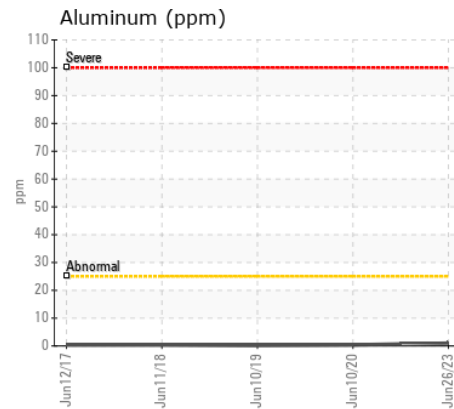
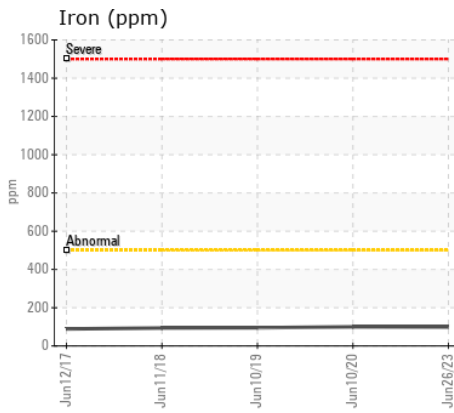
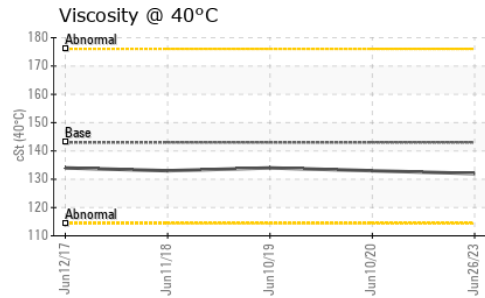
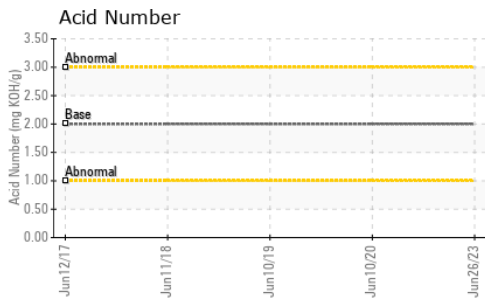
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>75	7	6	6
Potassium	ppm	ASTM D5185(m)	>20	5	6	5
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	VLITE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>.2	NEG	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	4	3	4
Boron	ppm	ASTM D5185(m)	400	205	224	218
Barium	ppm	ASTM D5185(m)	200	2	2	2
Molybdenum	ppm	ASTM D5185(m)	12	<1	<1	<1
Manganese	ppm	ASTM D5185(m)		4	5	4
Magnesium	ppm	ASTM D5185(m)	12	2	2	1
Calcium	ppm	ASTM D5185(m)	150	9	8	12
Phosphorus	ppm	ASTM D5185(m)	1650	1044	1056	1018
Zinc	ppm	ASTM D5185(m)	125	56	55	54
Sulfur	ppm	ASTM D5185(m)	22500	18987	20905	19482
Acid Number (AN)	mg KOH/g	ASTM D974*	2.00	1.41	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	143	132	133	134



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0815798 **Received** : 04 Jul 2023
Lab Number : 02567844 **Tested** : 04 Jul 2023
Unique Number : 5604890 **Diagnosed** : 04 Jul 2023 - Wes Davis
Test Package : MOB 2 (Additional Tests: TAN Man)

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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.