



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**LAKESHORE E1 FIRE**  
Component  
**Rear Differential**  
Fluid  
**GEAR OIL SAE 80W90 (9 LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

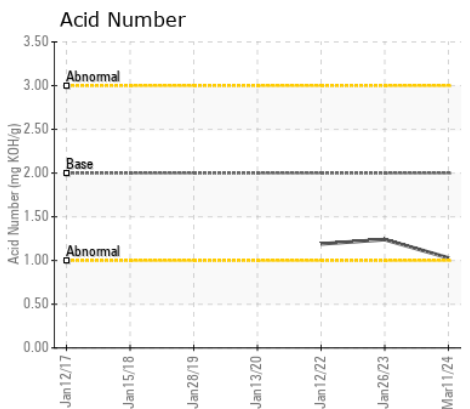
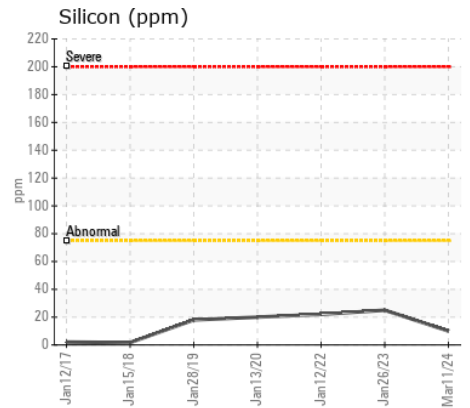
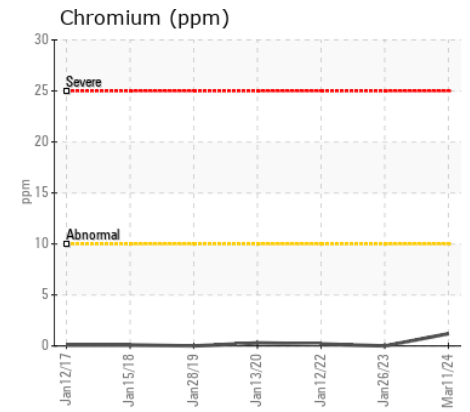
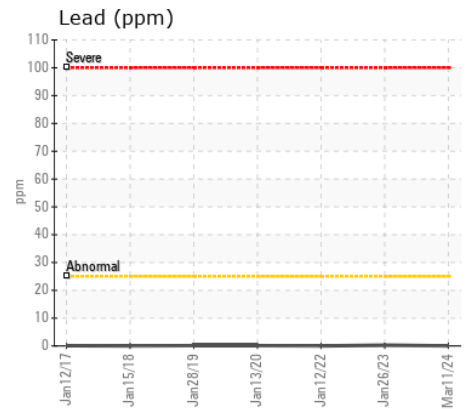
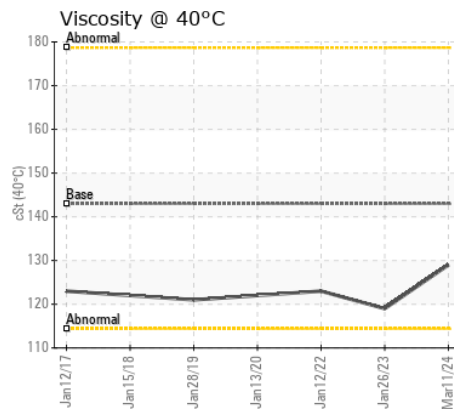
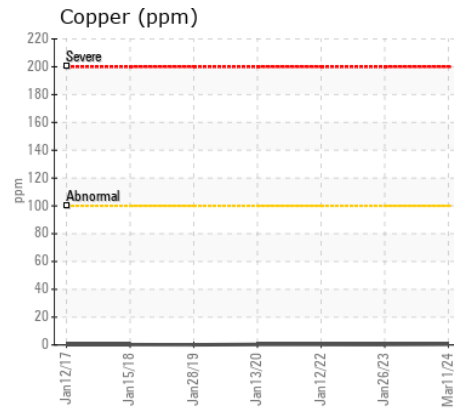
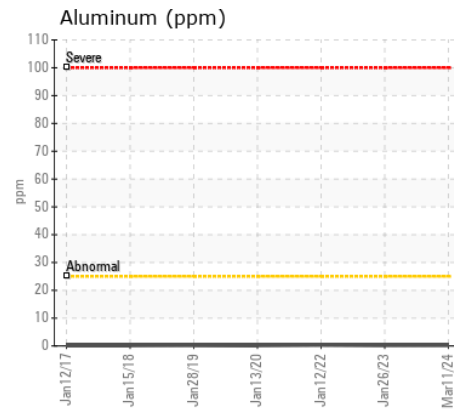
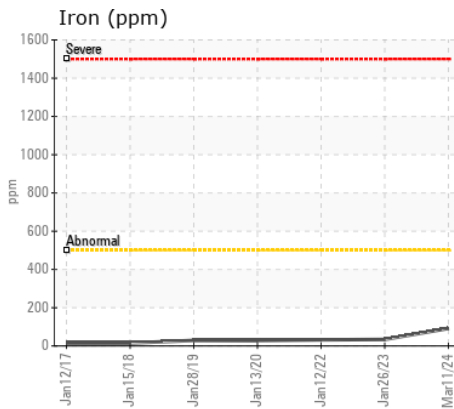
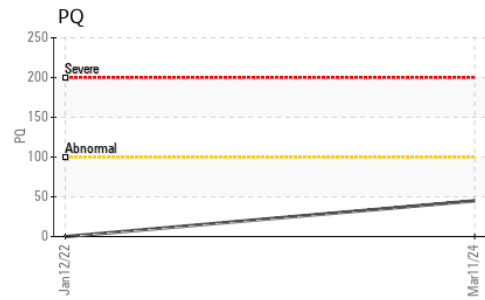
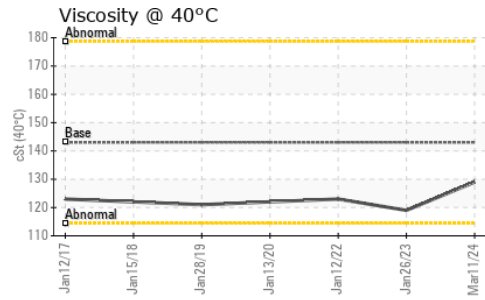
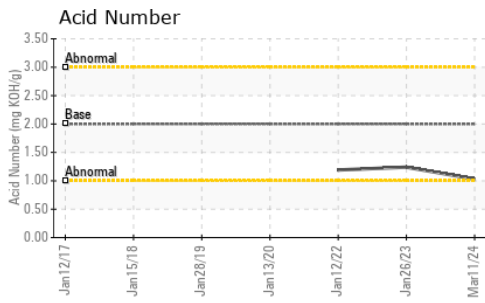
## CONTAMINATION

There is no indication of any contamination in the oil.

## FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0867255</b>	WC0760642	WC0623510
Sample Date		Client Info		<b>11 Mar 2024</b>	26 Jan 2023	12 Jan 2022
Machine Age	kms	Client Info		<b>6428</b>	0	21164
Oil Age	kms	Client Info		<b>6428</b>	25946	0
Filter Age	kms	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	N/A	Not Changd
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL
PQ		ASTM D8184*		<b>45</b>	---	0
Iron	ppm	ASTM D5185(m)	>500	<b>92</b>	34	32
Chromium	ppm	ASTM D5185(m)	>10	<b>1</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>25	<b>0</b>	<1	0
Copper	ppm	ASTM D5185(m)	>100	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>75	<b>10</b>	25	22
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Silt	scalar	Visual*	NONE	<b>VLITE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>VLITE</b>	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>.2	<b>NEG</b>	NEG	NEG
Sodium	ppm	ASTM D5185(m)	>170	<b>4</b>	<1	<1
Boron	ppm	ASTM D5185(m)	400	<b>112</b>	35	36
Barium	ppm	ASTM D5185(m)	200	<b>2</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)	12	<b>6</b>	0	<1
Manganese	ppm	ASTM D5185(m)		<b>8</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	12	<b>67</b>	1	<1
Calcium	ppm	ASTM D5185(m)	150	<b>154</b>	12	13
Phosphorus	ppm	ASTM D5185(m)	1650	<b>927</b>	589	564
Zinc	ppm	ASTM D5185(m)	125	<b>122</b>	8	8
Sulfur	ppm	ASTM D5185(m)	22500	<b>18565</b>	23524	22230
Acid Number (AN)	mg KOH/g	ASTM D974*	2.00	<b>1.03</b>	1.24	1.19
Visc @ 40°C	cSt	ASTM D7279(m)	143	<b>129</b>	119	123



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0867255 **Received** : 04 Apr 2024  
**Lab Number** : 02626703 **Tested** : 05 Apr 2024  
**Unique Number** : 5759835 **Diagnosed** : 05 Apr 2024 - Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: PQ )

**Windsor Spring & Alignment Ltd.**  
 1016 Crawford Ave.  
 Windsor, ON  
 CA N9A 5C9  
 Contact: Al Lemay  
 windsorspring@hotmail.com  
 T: (519)971-8895  
 F: (519)971-8932

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.