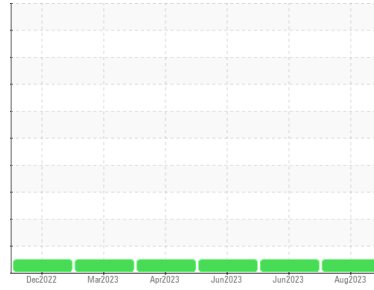




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**WESTERN STAR 308**

Component  
**Diesel Engine**

Fluid  
**KENDALL 10W30 (--- GAL)**

## DIAGNOSIS

### 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 condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0838803</b>	WC0755297	WC0755298
Sample Date	Client Info			<b>01 Aug 2023</b>	14 Jun 2023	09 Jun 2023
Machine Age	hrs	Client Info		<b>13174</b>	646	0
Oil Age	hrs	Client Info		<b>0</b>	646	0
Oil Changed	Client Info			<b>Changed</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<b>&lt;1.0</b>	<1.0	<1.0
Glycol	WC Method			<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	<b>16</b>	12	12
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>20</b>	20	17
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	2	2
Lead	ppm	ASTM D5185(m)	>40	<b>4</b>	2	2
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	1
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<b>36</b>	48	68
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>63</b>	68	55
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>133</b>	135	128
Calcium	ppm	ASTM D5185(m)		<b>1977</b>	1989	2046
Phosphorus	ppm	ASTM D5185(m)		<b>1036</b>	1042	1016
Zinc	ppm	ASTM D5185(m)		<b>1158</b>	1155	1115
Sulfur	ppm	ASTM D5185(m)		<b>3102</b>	3083	3128
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

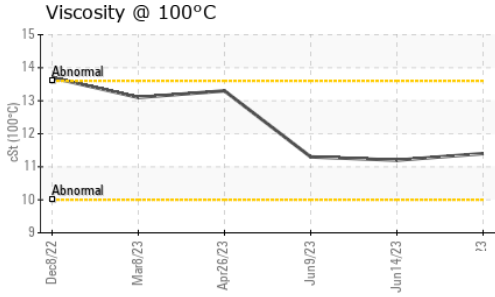
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	3	4
Sodium	ppm	ASTM D5185(m)		<b>3</b>	3	3
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	1	1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	<b>0.8</b>	0.5	0.4
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.1</b>	9.0	7.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.8</b>	20.5	19.2

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>15.3</b>	15.4	14.0



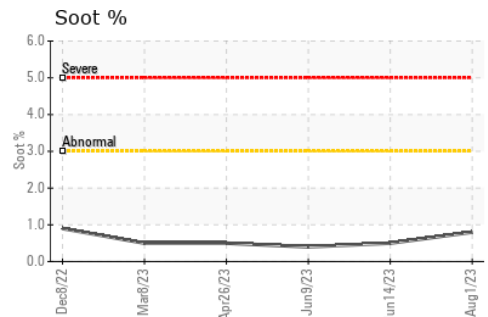
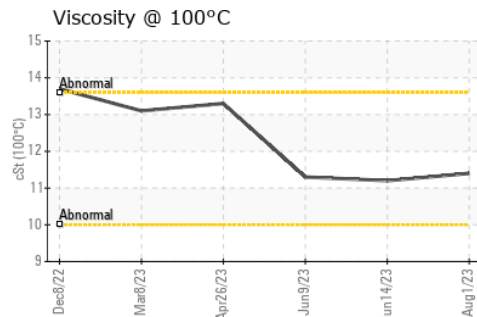
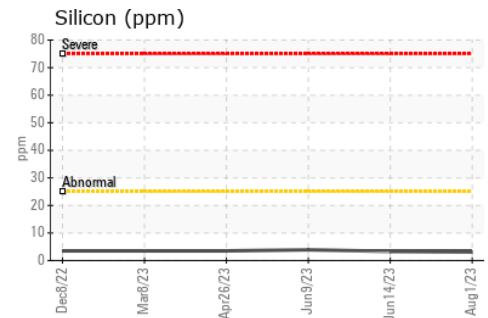
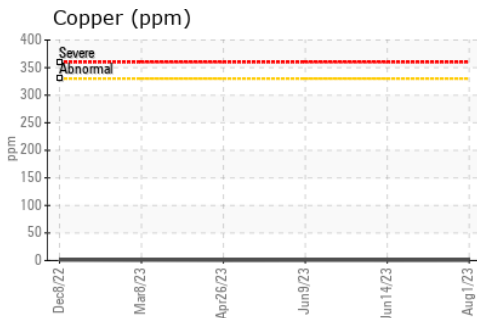
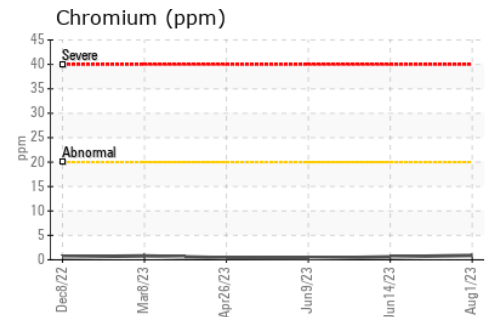
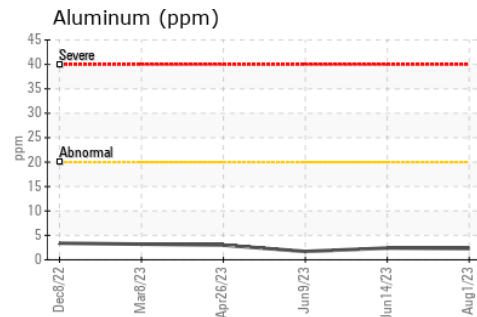
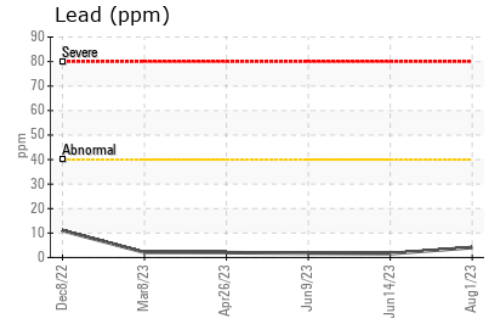
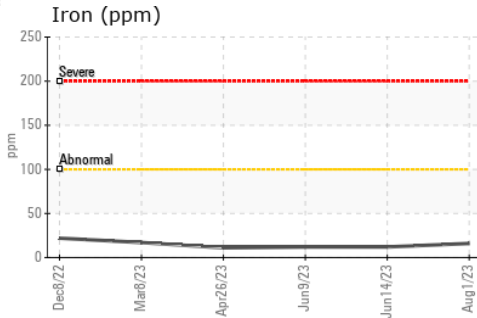
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	11.4	11.2	11.3

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0838803      **Received** : 10 Aug 2023  
**Lab Number** : 02575072      **Diagnosed** : 10 Aug 2023  
**Unique Number** : 5620123      **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

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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.