



# OIL ANALYSIS REPORT

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

Area  
**[5893]**  
 Machine Id  
**2202**  
 Component  
**Diesel Engine**  
 Fluid  
**VALVOLINE 15W40 (--- GAL)**

## RECOMMENDATION

No corrective action is recommended at this time. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0875078</b>	WC0858050	WC0843567
Sample Date		Client Info		<b>18 Dec 2023</b>	21 Oct 2023	16 Sep 2023
Machine Age	kms	Client Info		<b>165483</b>	157154	147653
Oil Age	kms	Client Info		<b>0</b>	0	0
Filter Age	kms	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	Changed
Sample Status				<b>ATTENTION</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>75	<b>14</b>	8	7
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>15	<b>2</b>	1	1
Lead	ppm	ASTM D5185(m)	>25	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185(m)	>100	<b>1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

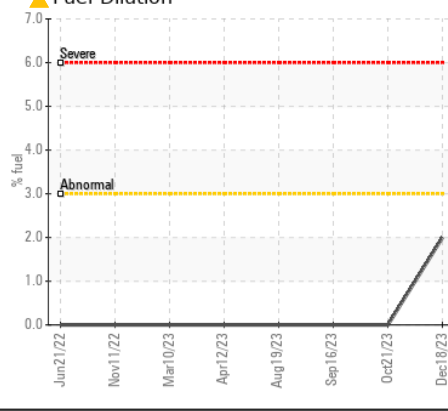
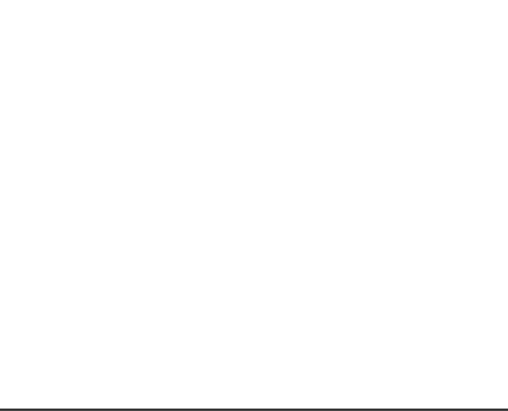
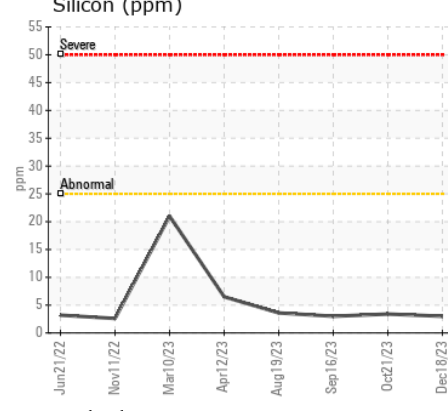
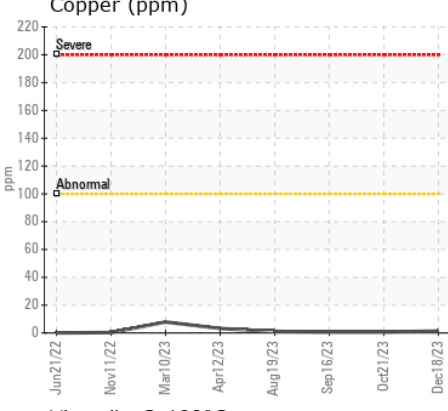
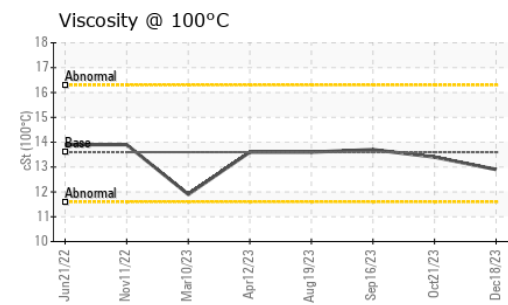
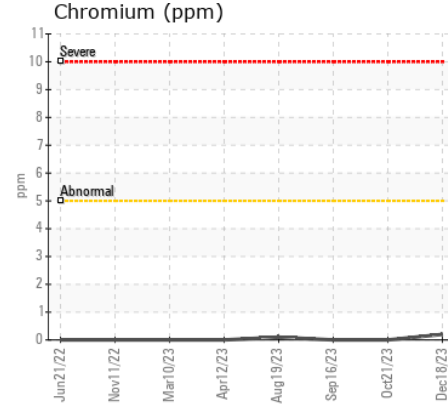
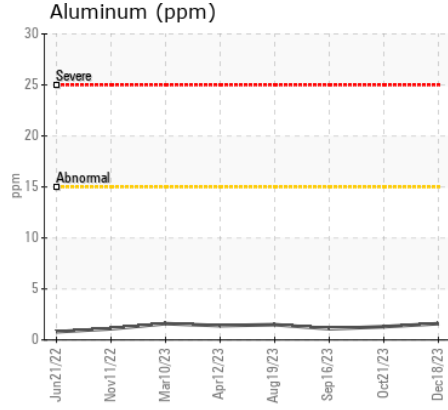
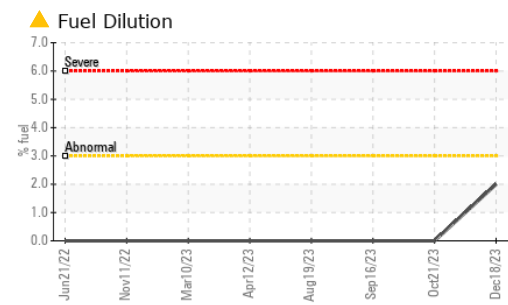
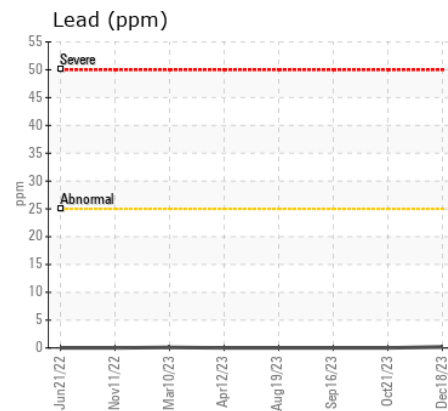
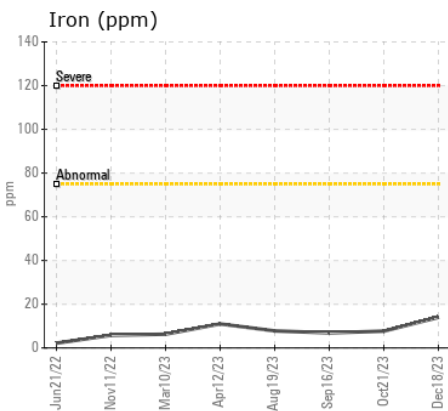
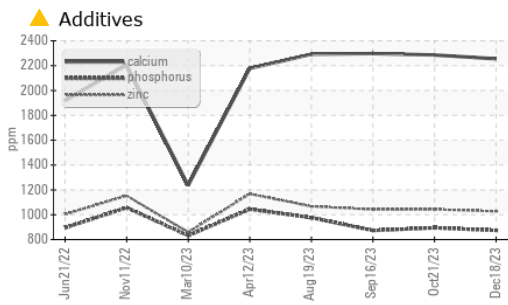
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	3	3
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	<1	<1
Fuel	%	ASTM D7593*	>3.0	<b>▲ 2</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>6	<b>0.2</b>	0.1	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.0</b>	8.0	7.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>22.4</b>	20.0	19.6
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>1</b>	2	2
Boron	ppm	ASTM D5185(m)	39	<b>12</b>	11	10
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)	49	<b>10</b>	8	8
Manganese	ppm	ASTM D5185(m)	1	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	616	<b>▲ 60</b>	40	28
Calcium	ppm	ASTM D5185(m)	1554	<b>▲ 2255</b>	2286	2297
Phosphorus	ppm	ASTM D5185(m)	899	<b>874</b>	895	873
Zinc	ppm	ASTM D5185(m)	1069	<b>1027</b>	1043	1042
Sulfur	ppm	ASTM D5185(m)	2624	<b>3116</b>	2984	2931
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>15.9</b>	13.2	12.9
Visc @ 100°C	cSt	ASTM D7279(m)	13.6	<b>12.9</b>	13.4	13.7



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0875078 **Received** : 08 Jan 2024  
**Lab Number** : 02606942 **Diagnosed** : 10 Jan 2024  
**Unique Number** : 5708028 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: FUELDILUTION, PercentFuel )

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.

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