

# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id 30025 Component Diesel Engine Fluid

VALVOLINE 15W40 (--- GAL)

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### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil

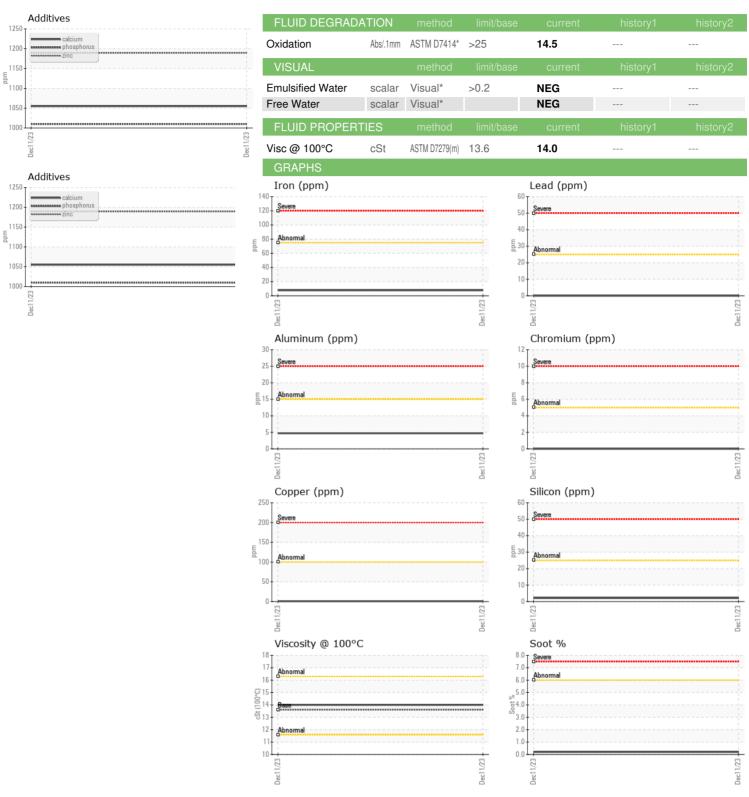
### **Fluid Condition**

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

				Dec2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0887259		
Sample Date		Client Info		11 Dec 2023		
Machine Age	hrs	Client Info		1986		
Oil Age	hrs	Client Info		319		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel	•	WC Method	>3.0	<1.0		
Water		WC Method		< 1.0 NEG		
		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	8		
Chromium	ppm	ASTM D5185(m)	>5	0		
Nickel	ppm	ASTM D5185(m)	>4	<1		
Titanium	ppm	ASTM D5185(m)	>2	0		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)	>15	5		
Lead	ppm	ASTM D5185(m)	>25	0		
Copper	ppm	ASTM D5185(m)	>100	<1		
Tin	ppm	ASTM D5185(m)	>4	0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	39	<1		
Barium	ppm	ASTM D5185(m)	1	0		
Molybdenum	ppm	ASTM D5185(m)	49	59		
Manganese	ppm	ASTM D5185(m)	1	0		
Magnesium	ppm	ASTM D5185(m)	616	971		
Calcium	ppm	ASTM D5185(m)	1554	1055		
Phosphorus	ppm	ASTM D5185(m)	899	1010		
Zinc	ppm	ASTM D5185(m)	1069	1189		
Sulfur	ppm	ASTM D5185(m)	2624	2721		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	2		
Sodium	ppm	ASTM D5185(m)		3		
Potassium	ppm	ASTM D5185(m)	>20	6		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.2		
Nitration	Abs/cm	ASTM D7624*	>20	6.4		
Sulfation	Abs/.1mm	ASTM D7024 ASTM D7415*	>30	18.9		
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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number Test Package : MOB 1

: WC0887259 : 02604310

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Recieved Diagnosed : 5697395 Diagnostician

: 20 Dec 2023 : 20 Dec 2023

: Wes Davis

**CITY OF PETERBOROUGH** 791 WEBBER AVENUE,, MUNICIPAL OPERATIONS CENTRE

PETERBOROUGH, ON CA K9J 8N3 Contact: Frank Curran fcurran@peterborough.ca

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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