



# OIL ANALYSIS REPORT

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

Machine Id  
**BUCYRUS 2570**  
Component  
**2 Propel Gearbox**  
Fluid  
**BELRAY 100 EP GEAR OIL 680 (--- GAL)**

## RECOMMENDATION

We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

## WEAR

All component wear rates are normal.

## CONTAMINATION

There is no indication of any contamination in the oil.

## FLUID CONDITION

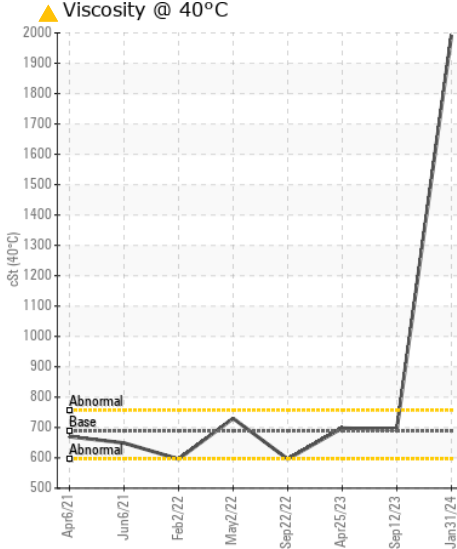
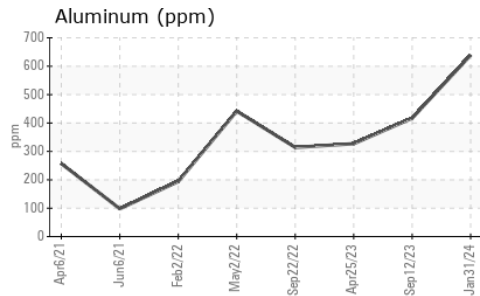
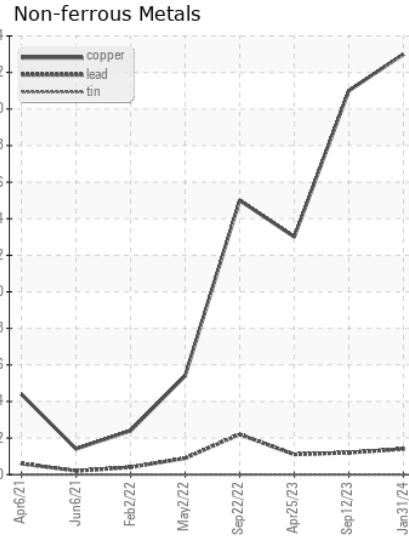
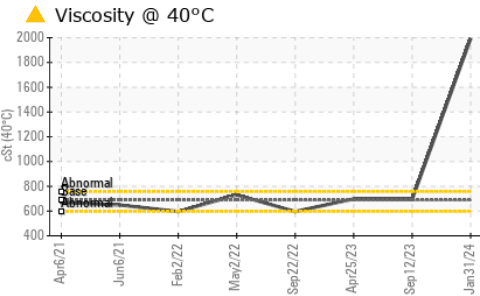
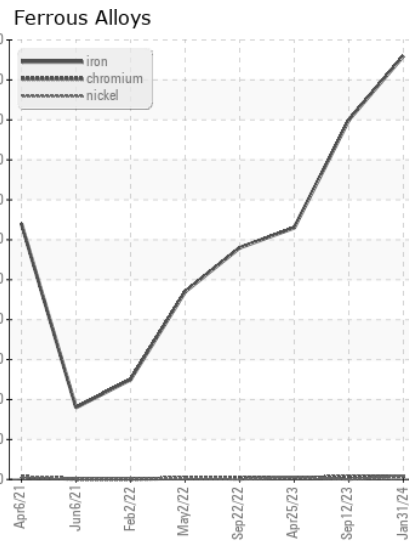
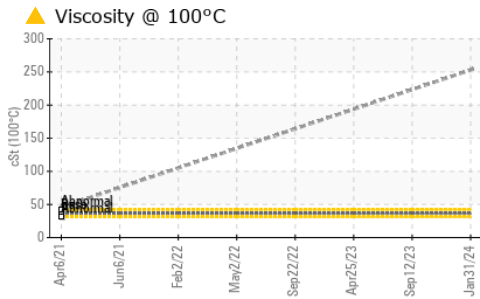
Viscosity of sample indicates oil is within ISO 2200 range, advise investigate. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>BR0000823</b>	BR0000763	BR0000644
Sample Date		Client Info		<b>31 Jan 2024</b>	12 Sep 2023	25 Apr 2023
Machine Age	hrs	Client Info		<b>275332</b>	29393	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

Iron	ppm	ASTM D5185(m)	>200	<b>106</b>	90	63
Chromium	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)		<b>639</b>	417	327
Lead	ppm	ASTM D5185(m)		<b>1</b>	1	1
Copper	ppm	ASTM D5185(m)		<b>23</b>	21	13
Tin	ppm	ASTM D5185(m)		<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
White Metal	scalar	Visual*	NONE	<b>LIGHT</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

Silicon	ppm	ASTM D5185(m)		<b>56</b>	42	39
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	2	<1
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
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*	>0.2	<b>NEG</b>	NEG	NEG

Sodium	ppm	ASTM D5185(m)		<b>25</b>	19	17
Boron	ppm	ASTM D5185(m)		<b>&lt;1</b>	2	2
Barium	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)		<b>773</b>	541	452
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>5</b>	4	2
Calcium	ppm	ASTM D5185(m)		<b>220</b>	136	87
Phosphorus	ppm	ASTM D5185(m)		<b>625</b>	716	744
Zinc	ppm	ASTM D5185(m)		<b>12</b>	15	13
Sulfur	ppm	ASTM D5185(m)		<b>10173</b>	9891	9140
Visc @ 40°C	cSt	ASTM D7279(m)	688	<b>▲ 1992</b>	694	698
Visc @ 100°C	cSt	ASTM D7279(m)	36.5	<b>▲ 253</b>	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **CAN JER INDUSTRIAL LUBRICANT LTD**  
**Sample No.** : BR0000823 **Received** : 29 Feb 2024 419 MISSISSIPPIAN DRIVE  
**Lab Number** : 02619063 **Tested** : 01 Mar 2024 ESTEVAN, SK  
**Unique Number** : 5736173 **Diagnosed** : 04 Mar 2024 - Kevin Marson CA S4A 2A4  
**Test Package** : IND 1 ( Additional Tests: KV100, VI ) Contact: LONDON LILLEJORD  
 lilljrd@canjer.com

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.