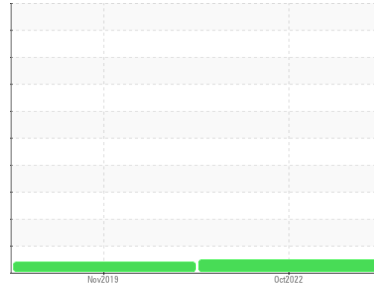




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**(C-GMFZ)**  
 Machine Id  
**[C-GMFZ] VICKERS 2086**  
 Component  
**Hydraulic System**  
 Fluid  
**ROYAL ROYCO 782 (29 LTR)**

## 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. The system and fluid cleanliness is acceptable.

### Fluid Condition

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0626613</b>	WC0391496	---
Sample Date	Client Info			<b>25 Oct 2022</b>	22 Nov 2019	---
Machine Age	hrs	Client Info		<b>1604</b>	1013	---
Oil Age	hrs	Client Info		<b>155</b>	130	---
Oil Changed	Client Info			<b>Not Chngd</b>	Filtered	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.05	<b>NEG</b>	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	<b>0</b>	0	---
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	0	---
Nickel	ppm	ASTM D5185(m)	>10	<b>0</b>	0	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	0	---
Lead	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	4	---
Copper	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	---
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	---
Antimony	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	---

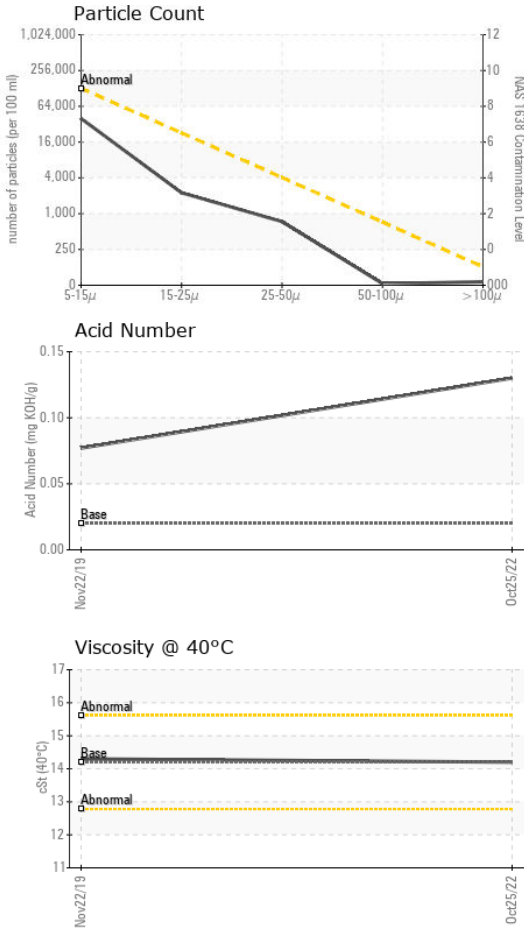
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	---
Magnesium	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Calcium	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Phosphorus	ppm	ASTM D5185(m)	720	<b>721</b>	661	---
Zinc	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---
Sulfur	ppm	ASTM D5185(m)	0	<b>71</b>	64	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	<b>5</b>	5	---
Sodium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles 5-15µm	count	NAS 1638	>127999	<b>39906</b>	60271	---
Particles 15-25µm	count	NAS 1638	>22799	<b>2247</b>	6557	---
Particles 25-50µm	count	NAS 1638	>4049	<b>736</b>	▲ 5371	---
Particles 50-100µm	count	NAS 1638	>719	<b>11</b>	167	---
Particles >100µm	count	NAS 1638	>127	<b>24</b>	28	---
NAS 1638	Class	NAS 1638	>9	<b>8</b>	▲ 10	---



# OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.02	<b>0.13</b>	0.077	---
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	LIGHT	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*	>0.05	<b>NEG</b>	NEG	---
Free Water	scalar	Visual*		<b>NEG</b>	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	14.2	<b>14.2</b>	14.3	---

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						no image
Bottom						no image
PrtFilter						no image



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0626613 **Received** : 04 Nov 2022  
**Lab Number** : **02520778** **Diagnosed** : 07 Nov 2022  
**Unique Number** : 5477758 **Diagnostician** : Kevin Marson  
**Test Package** : IND 2 ( Additional Tests: PrtCountNAS, TAN Man )

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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