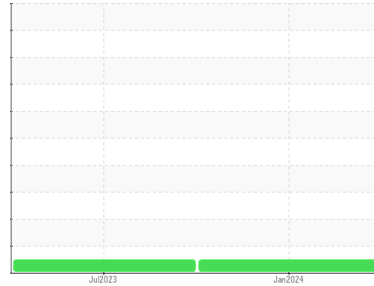




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**NB650-4**

Component  
**Hydraulic System**

Fluid  
**PETRO CANADA HYDREX AW 46 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

### 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>KFS0001666</b>	KFS0001681	---
Sample Date	Client Info	<b>09 Jan 2024</b>	11 Jul 2023	---
Machine Age	hrs Client Info	<b>0</b>	0	---
Oil Age	hrs Client Info	<b>0</b>	0	---
Oil Changed	Client Info	<b>N/A</b>	N/A	---
Sample Status		<b>NORMAL</b>	NORMAL	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>20	<b>6</b>	4	---
Chromium ppm ASTM D5185m	>20	<b>&lt;1</b>	<1	---
Nickel ppm ASTM D5185m	>20	<b>0</b>	0	---
Titanium ppm ASTM D5185m		<b>0</b>	0	---
Silver ppm ASTM D5185m		<b>0</b>	0	---
Aluminum ppm ASTM D5185m	>20	<b>2</b>	0	---
Lead ppm ASTM D5185m	>20	<b>0</b>	<1	---
Copper ppm ASTM D5185m	>20	<b>2</b>	2	---
Tin ppm ASTM D5185m	>20	<b>0</b>	0	---
Vanadium ppm ASTM D5185m		<b>0</b>	0	---
Cadmium ppm ASTM D5185m		<b>0</b>	0	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m	0	<b>0</b>	0	---
Barium ppm ASTM D5185m	0	<b>0</b>	2	---
Molybdenum ppm ASTM D5185m	0	<b>0</b>	0	---
Manganese ppm ASTM D5185m	0	<b>0</b>	0	---
Magnesium ppm ASTM D5185m	0	<b>1</b>	1	---
Calcium ppm ASTM D5185m	50	<b>73</b>	75	---
Phosphorus ppm ASTM D5185m	330	<b>446</b>	379	---
Zinc ppm ASTM D5185m	430	<b>545</b>	541	---
Sulfur ppm ASTM D5185m	760	<b>2738</b>	2770	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>15	<b>&lt;1</b>	<1	---
Sodium ppm ASTM D5185m		<b>0</b>	0	---
Potassium ppm ASTM D5185m	>20	<b>1</b>	<1	---
Water % ASTM D6304	>0.05	<b>NEG</b>	NEG	---

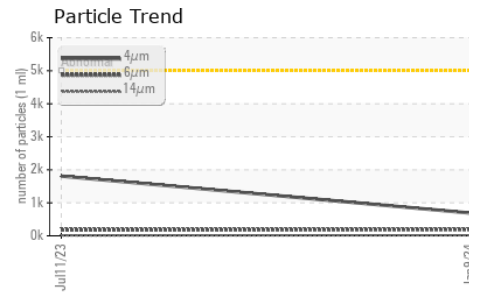
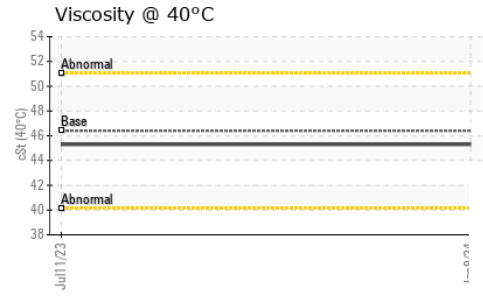
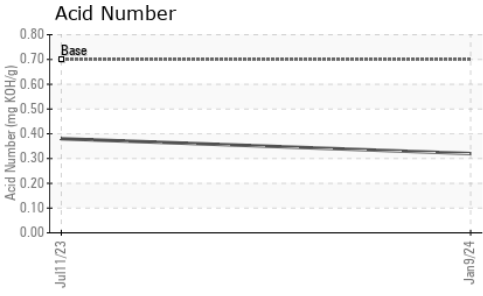
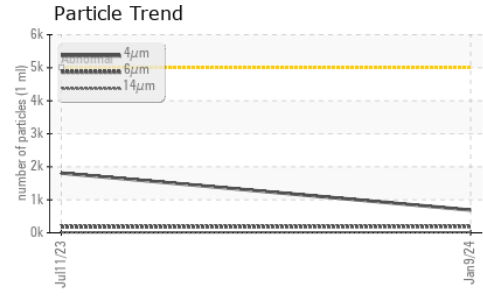
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>5000	<b>689</b>	1809	---
Particles >6µm ASTM D7647	>1300	<b>189</b>	179	---
Particles >14µm ASTM D7647	>160	<b>17</b>	12	---
Particles >21µm ASTM D7647	>40	<b>4</b>	3	---
Particles >38µm ASTM D7647	>10	<b>0</b>	0	---
Particles >71µm ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness ISO 4406 (c)	>19/17/14	<b>17/15/11</b>	18/15/11	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045	0.70	<b>0.32</b>	0.38	---

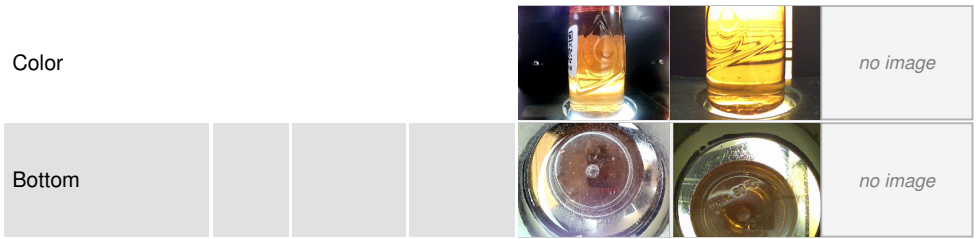
# OIL ANALYSIS REPORT



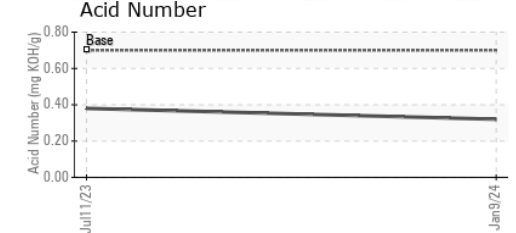
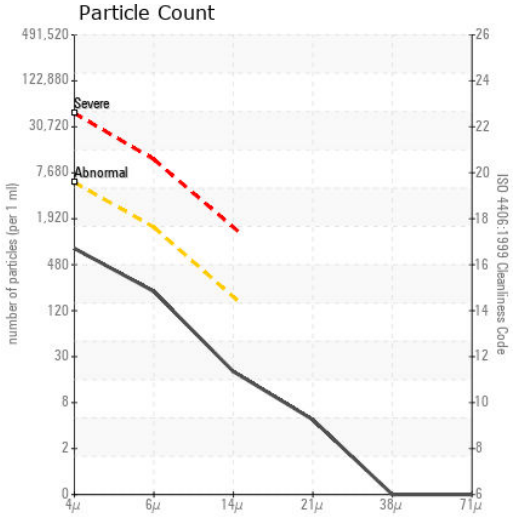
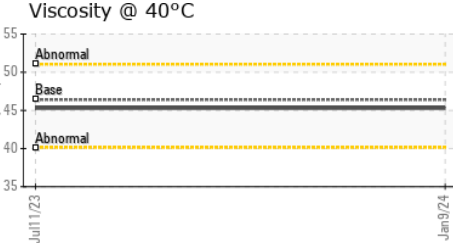
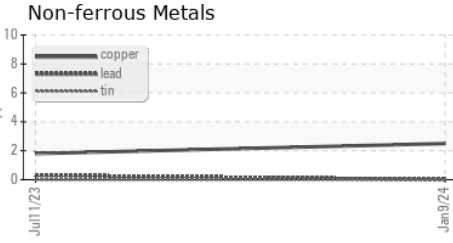
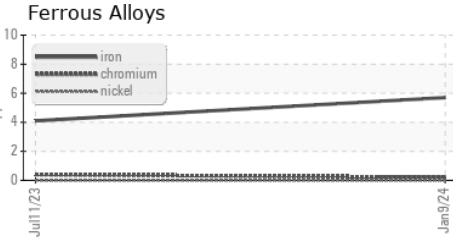
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.05	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	46.4	<b>45.3</b>	45.3	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KFS0001666      **Received** : 12 Jan 2024  
**Lab Number** : 06060186      **Tested** : 16 Jan 2024  
**Unique Number** : 10831568      **Diagnosed** : 16 Jan 2024 - Jonathan Hester  
**Test Package** : PLANT

**MARELLI**  
 181 BENNETT DR  
 PULASKI, TN  
 US 38478  
 Contact: Service Manager

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:  
F: