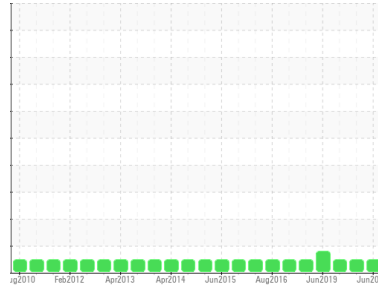


# OIL ANALYSIS REPORT

Area  
**65524**  
Machine Id  
**NOTSTAL P31 (S/N 2007055801)**  
Component  
**Hydraulic System**  
Fluid  
**PETRO CANADA PURITY FG HYDRAULIC AW 68 (700 LTR)**

Sample Rating Trend



**NORMAL**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. 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>PC0087662</b>	PC0030037	PC0005797
Sample Date	Client Info	<b>12 Jun 2024</b>	06 Feb 2022	28 Aug 2020
Machine Age	hrs	<b>0</b>	0	10000
Oil Age	hrs	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

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

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >40	<b>3</b>	4	2
Chromium	ppm ASTM D5185(m) >4	<b>0</b>	<1	<1
Nickel	ppm ASTM D5185(m) >20	<b>0</b>	<1	<1
Titanium	ppm ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm ASTM D5185(m)	<b>0</b>	<1	0
Aluminum	ppm ASTM D5185(m) >4	<b>0</b>	0	0
Lead	ppm ASTM D5185(m) >10	<b>0</b>	1	<1
Copper	ppm ASTM D5185(m) >60	<b>&lt;1</b>	5	1
Tin	ppm ASTM D5185(m) >4	<b>0</b>	0	0
Antimony	ppm ASTM D5185(m)	<b>0</b>	<1	<1
Vanadium	ppm ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Barium	ppm ASTM D5185(m)	<b>0</b>	0	<1
Molybdenum	ppm ASTM D5185(m)	<b>0</b>	0	0
Manganese	ppm ASTM D5185(m)	<b>0</b>	0	0
Magnesium	ppm ASTM D5185(m)	<b>&lt;1</b>	0	<1
Calcium	ppm ASTM D5185(m)	<b>6</b>	10	9
Phosphorus	ppm ASTM D5185(m)	<b>314</b>	334	357
Zinc	ppm ASTM D5185(m)	<b>12</b>	20	10
Sulfur	ppm ASTM D5185(m)	<b>1543</b>	1724	1678
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

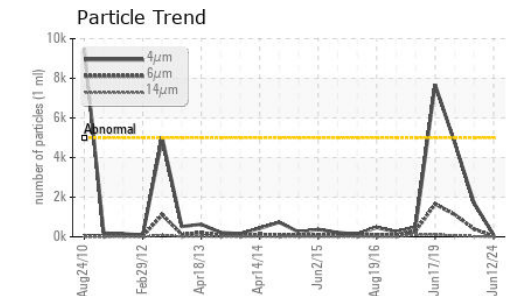
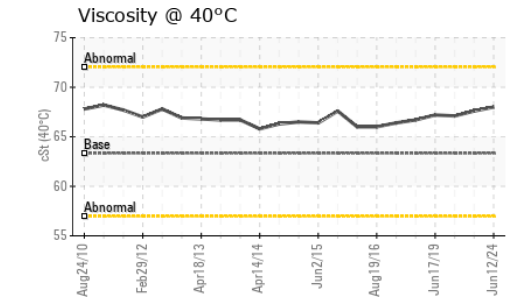
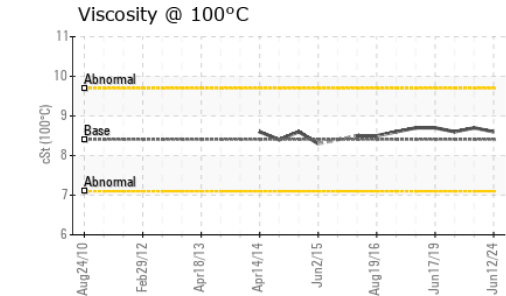
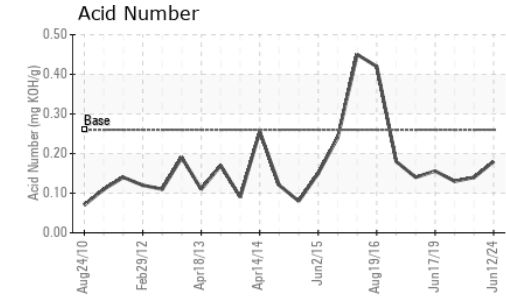
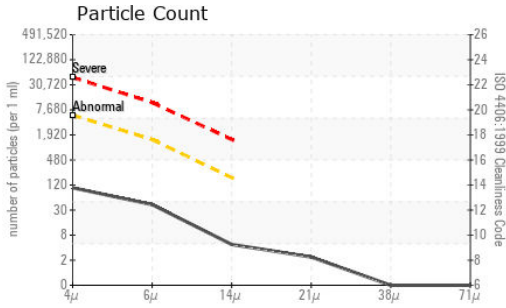
## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >20	<b>2</b>	8	11
Sodium	ppm ASTM D5185(m)	<b>3</b>	2	<1
Potassium	ppm ASTM D5185(m) >20	<b>&lt;1</b>	1	<1

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	<b>91</b>	1704	4762
Particles >6µm	ASTM D7647 >1300	<b>36</b>	391	1128
Particles >14µm	ASTM D7647 >160	<b>4</b>	26	70
Particles >21µm	ASTM D7647 >40	<b>2</b>	6	22
Particles >38µm	ASTM D7647 >10	<b>0</b>	0	0
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >19/17/14	<b>14/12/9</b>	18/16/12	19/17/13

# OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.26	<b>0.18</b>	0.14	0.13

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
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	VLITE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.05	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	63.34	<b>68.0</b>	67.6	67.1
Visc @ 100°C	cSt	ASTM D7279(m)	8.409	<b>8.6</b>	8.7	8.6
Viscosity Index (VI)	Scale	ASTM D2270*	102	<b>96</b>	100	98

## SAMPLE IMAGES

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



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0087662  
**Lab Number** : **02641718**  
**Unique Number** : 5799257  
**Test Package** : IND 2 ( Additional Tests: KV100, VI )  
**Received** : 13 Jun 2024  
**Tested** : 14 Jun 2024  
**Diagnosed** : 14 Jun 2024 - Wes Davis

**North America IML Container**  
 2625, Route 344  
 St. Placide, QC  
 CA J0V 2B0  
 Contact: Corinna Bouchard  
 cbouchard@iml.ca  
 T: (450)258-3130  
 F: (450)258-3345

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.