



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area  
**1 White Oil/028 #1HTU/P Pump/202 Wash Water**

Machine Id  
**N/A 28P202 - (RECIP)**

Component  
**Pump**

Fluid  
**PETRO CANADA COMPRO COMPRESSOR OIL 150 (20 LTR)**

## RECOMMENDATION

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0883375</b>	WC0736682	WC0500553
Sample Date		Client Info		<b>29 Apr 2024</b>	07 Dec 2022	24 Nov 2020
Machine Age	hrs	Client Info		<b>0</b>	0	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>SEVERE</b>	SEVERE	SEVERE

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	<b>16</b>	68	6
Chromium	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>7	<b>0</b>	<1	1
Lead	ppm	ASTM D5185(m)	>12	<b>0</b>	1	<1
Copper	ppm	ASTM D5185(m)	>30	<b>4</b>	7	4
Tin	ppm	ASTM D5185(m)	>9	<b>1</b>	3	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

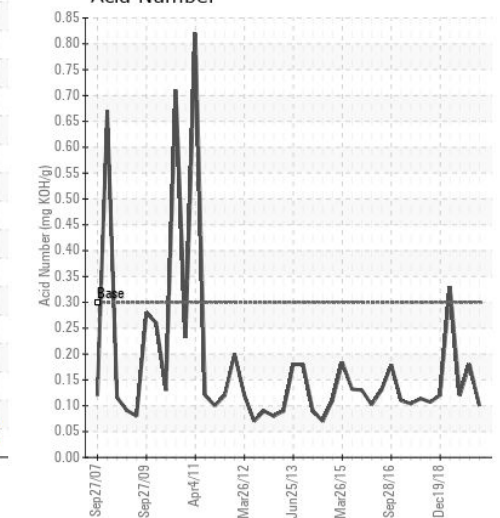
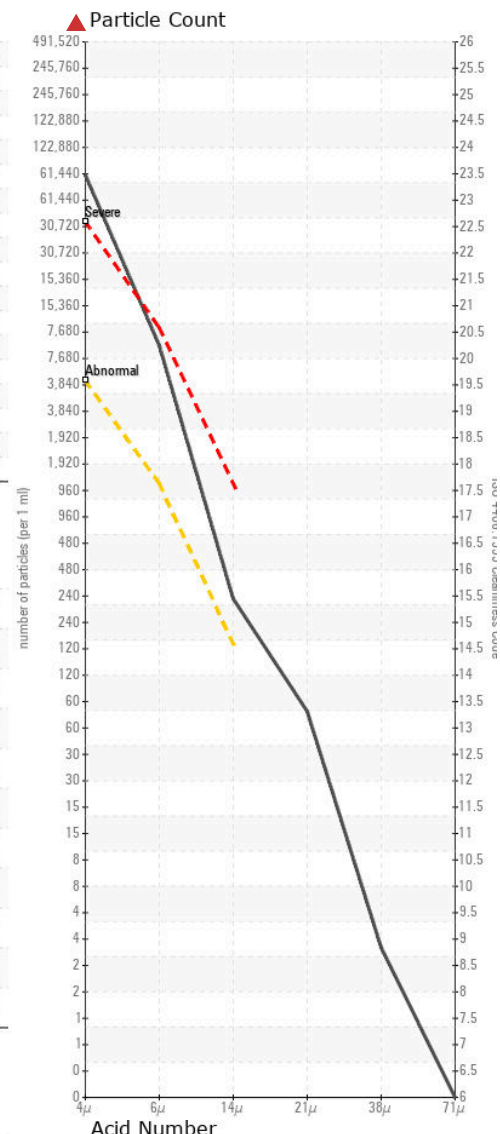
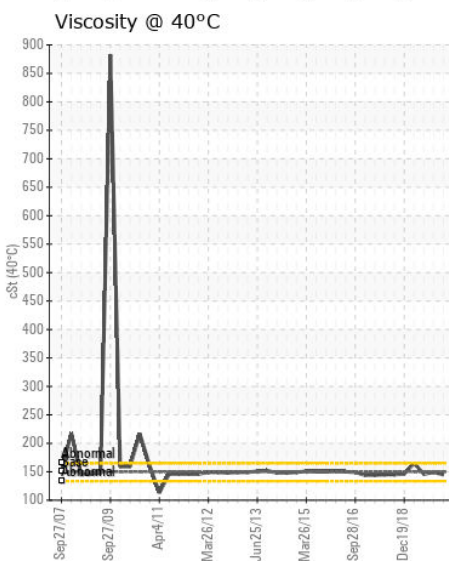
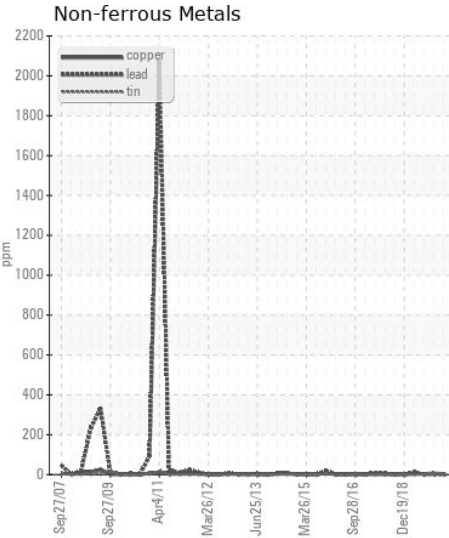
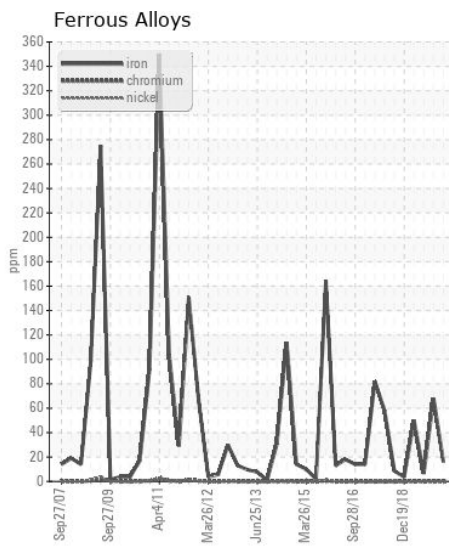
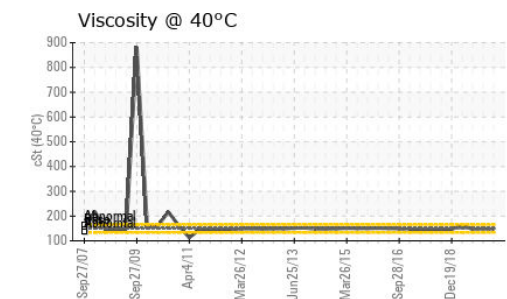
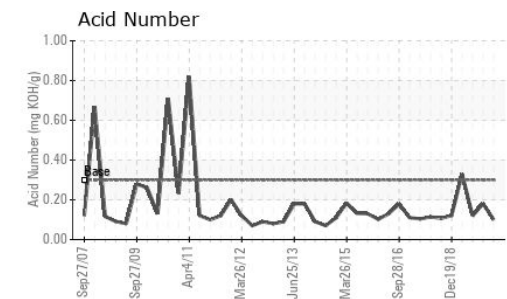
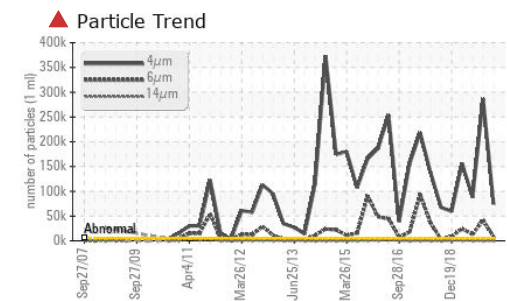
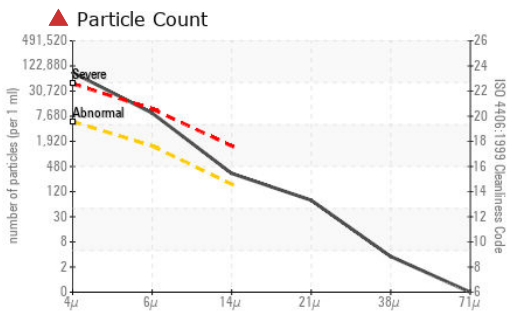
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185(m)	>60	<b>0</b>	4	2
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	<1
Water		WC Method	>.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>▲ 74027</b>	▲ 287013	▲ 87902
Particles >6µm		ASTM D7647	>1300	<b>▲ 7941</b>	▲ 41728	▲ 12888
Particles >14µm		ASTM D7647	>160	<b>● 288</b>	● 275	● 298
Particles >21µm		ASTM D7647	>40	<b>● 66</b>	51	49
Particles >38µm		ASTM D7647	>10	<b>3</b>	1	0
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>▲ 23/20/15</b>	▲ 25/23/15	▲ 24/21/15
Silt	scalar	Visual*	NONE	<b>NONE</b>	VLITE	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*	>.1	<b>NEG</b>	.2%	NEG

## FLUID CONDITION

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Boron	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	1	2
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	<1	2
Manganese	ppm	ASTM D5185(m)		<b>0</b>	1	<1
Magnesium	ppm	ASTM D5185(m)	70	<b>&lt;1</b>	<1	1
Calcium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	8	68
Phosphorus	ppm	ASTM D5185(m)	60	<b>3</b>	19	35
Zinc	ppm	ASTM D5185(m)	2	<b>2</b>	6	27
Sulfur	ppm	ASTM D5185(m)	5300	<b>3016</b>	3131	3086
Acid Number (AN)	mg KOH/g	ASTM D974*	0.3	<b>0.10</b>	0.18	0.12
Visc @ 40°C	cSt	ASTM D7279(m)	150	<b>145</b>	149	146



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0883375  
**Lab Number** : 02632786  
**Unique Number** : 5773939  
**Test Package** : IND 2 ( Additional Tests: TAN Man )  
**Received** : 02 May 2024  
**Tested** : 03 May 2024  
**Diagnosed** : 03 May 2024 - Wes Davis

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.

**Petro Canada Lubricants Inc.**  
 385 Southdown Road  
 Mississauga, ON  
 CA L5J 2Y3  
 Contact: Kyle Blezard  
 kyle.blezard@HFSinclair.com  
 T: (905)403-6768  
 F: (905)822-6025