

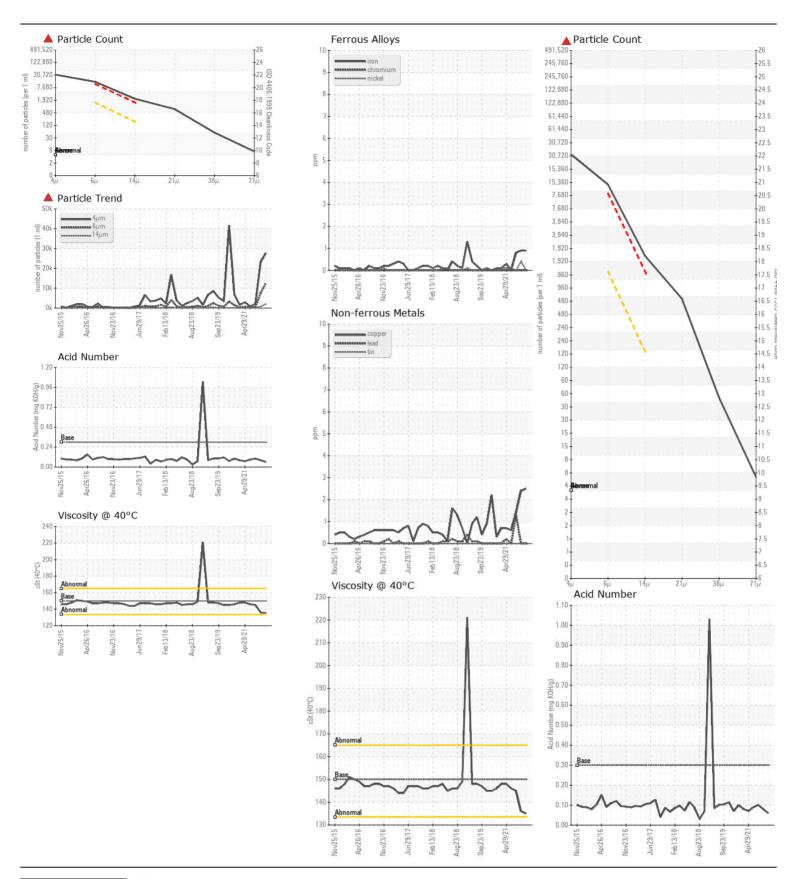
**WEAR CONTAMINATION FLUID CONDITION**  **NORMAL SEVERE NORMAL** 

## 1 White Oil/028 #1HTU/P Pump/201C 1 Stage HTU Charge

N/A 28P201C (RECIP)
Component
Pump
Elitid

PETRO CANADA COMPRO COMPRESSOR OIL 150 (150 LTR)

PETRO CANADA COMPRO COMPRESSOR OIL	. 150 (150 L	in)					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Check seals and/or filters for points of contaminant entry. We advise that you check all areas where contaminants can enter the system. The air breather requires service. If unrated, we recommend that you replace with	Sample Number		Client Info		WC0754436	WC0902159	WC0783258
	Sample Date		Client Info		29 Apr 2024	25 Feb 2024	17 Feb 2023
	Machine Age	hrs	Client Info		0	0	0
a suitable micron rated and/or desiccant air breather. If rated, we	Oil Age	hrs	Client Info		0	0	0
recommend that you service/replace the breather. We advise that you follow the water drain-off procedure for this component. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. Resample in 30-45 days to monitor this situation.	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				SEVERE	ABNORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185(m)	>90	<1	<1	<1
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)	>5	0	0	0
	Nickel	ppm	ASTM D5185(m)	>5	0	<1	0
	Titanium	ppm	ASTM D5185(m)	>3	0	0	0
	Silver	ppm	ASTM D5185(m)	>3	0	0	0
	Aluminum	ppm	ASTM D5185(m)	>7	0	<1	<1
	Lead	ppm	ASTM D5185(m)	>12	0	0	1
	Copper	ppm	ASTM D5185(m)	>30	2	2	1
	Tin	ppm	ASTM D5185(m)	>9	0	0	0
	Vanadium	ppm	ASTM D5185(m)		0	0	0
	White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>60	0	<1	<1
	Potassium	ppm	ASTM D5185(m)	>20	<1	0	<1
There is a high amount of particulates (2 to 100 microns in size) present in the oil. Free water present. The system cleanliness code is much higher than the acceptable limit for the target ISO 4406 cleanliness code.	Water		WC Method	>.1	NEG	NEG	NEG
	Particles >4µm		ASTM D7647		27764	23121	2003
	Particles >6µm		ASTM D7647	>1300	<b>12614</b>	<u></u> 4 7567 <u></u> − 7567	420
	Particles >14μm		ASTM D7647	>160	<b>1953</b>	<u></u> 43	21
	Particles >21μm		ASTM D7647		<b>▲</b> 634	<u>^</u> 209	6
	Particles >38µm		ASTM D7647		<u>48</u>	<b>18</b>	1
	Particles >71µm		ASTM D7647		<u>^</u> 6	3	0
	Oil Cleanliness		. ,			<u>^</u> 22/20/17	18/16/12
	Silt	scalar	Visual*	NONE	NONE	NONE	NONE
	Debris	scalar	Visual*	NONE	VLITE	VLITE	NONE
	Sand/Dirt	scalar	Visual*	NONE	VLITE	NONE	NONE
	Appearance Odor		Visual* Visual*	NORML	▲ LAYRD	NORML NORML	NORML
	Emulsified Water	scalar		NORML >.1	NORML 1%	NEG	NORML NEG
		Scalai	Visuai	>.1	1 70	INLG	INLG
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		0	0	<1
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.	Boron	ppm	ASTM D5185(m)	0	<1	0	<1
	Barium	ppm	ASTM D5185(m)	0	0	0	0
	Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
	Manganese	ppm	ASTM D5185(m)		0	0	0
	Magnesium	ppm	ASTM D5185(m)		0	<1	<1
	Calcium	ppm	ASTM D5185(m)		0	<1	0
	Phosphorus	ppm	ASTM D5185(m)		4	4	11
	Zinc	ppm	ASTM D5185(m)		2	2	3
	Sulfur	ppm	ASTM D5185(m)		3000	3316	3103
	Acid Number (AN)	mg KOH/g	ASTM D974*		0.06	0.08	0.10
	Visc @ 40°C	cSt	ASTM D7279(m)	150	135	136	145





ISO 17025:2017 Accredited Laboratory Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

 Sample No.
 : WC0754436
 Received
 : 02 May 2024

 Lab Number
 : 02632758
 Tested
 : 03 May 2024

 Unique Number
 : 5773911
 Diagnosed
 : 03 May 2024 - Kevin Marson

**Test Package**: IND 2 (Additional Tests: 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.

Petro Canada Lubricants Inc.

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