

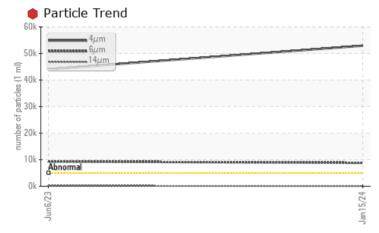
Sample Rating Trend ISO

### Area [133370] Machine Id COMBO #7 Component

Hydraulic System

## PETRO CANADA PURITY FG AW HYDRAULIC 32 (3 GAL)

### COMPONENT CONDITION SUMMARY



### 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. Please specify the component make and model with your next sample.

PROBLEMATIC TEST RESULTS
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Sample Status		SEVERE	SEVERE	
Particles >4µm	ASTM D7647 >5000	) 🛑 52945	44070	
Particles >6µm	ASTM D7647 >1300	) <b>A 8832</b>	<b>9</b> 317	
Oil Cleanliness	ISO 4406 (c) >19/1	7/14 🛑 23/20/13	23/20/15	

Customer Id: GRA685CAM Sample No.: WC0898887 Lab Number: 02609349 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

	RECOMMENDED AC	TIONS			
	Action	Status	Date	Done By	Description
	Change Filter			?	We recommend you service the filters on this component.
	Resample			?	Resample in 30-45 days to monitor this situation.
	Information Required			?	Please specify the component make and model with your next sample.
	Check Breathers			?	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.
	Check Seals			?	Check seals and/or filters for points of contaminant entry.

### HISTORICAL DIAGNOSIS

### 06 Jun 2023 Diag: Kevin Marson

ISO

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. Please specify the component make and model with your next sample.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.





# **OIL ANALYSIS REPORT**

Sample Rating Trend



# Area [1333370] **COMBO #7** Component

**Hydraulic System** 

### PETRO CANADA PURITY FG AW HYDRAULIC 32 (3 GAL)

### DIAGNOSIS

### 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. Please specify the component make and model with your next sample.

### Wear

All component wear rates are normal.

### Contamination

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

### 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.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0898887	WC0808176	
Sample Date		Client Info		15 Jan 2024	06 Jun 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed	1115	Client Info		N/A	N/A	
Sample Status				SEVERE	SEVERE	
· ·				GEVENE	-	
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	2	2	
Chromium	ppm	ASTM D5185(m)	>10	0	0	
Nickel	ppm	ASTM D5185(m)	>10	0	0	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)		0	0	
Aluminum	ppm	ASTM D5185(m)	>10	<1	<1	
Lead	ppm	ASTM D5185(m)	>10	0	<1	
Copper	ppm	ASTM D5185(m)	>75	<1	0	
Tin	ppm	ASTM D5185(m)	>10	0	0	
Antimony	ppm	ASTM D5185(m)		0	<1	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		0	0	
Barium	ppm	ASTM D5185(m)		<1	0	
Molybdenum	ppm	ASTM D5185(m)		0	0	
Manganese	ppm	ASTM D5185(m)		0	0	
Magnesium	ppm	ASTM D5185(m)		0	0	
Calcium	ppm	ASTM D5185(m)		1	0	
Phosphorus	ppm	ASTM D5185(m)		459	524	
Zinc	ppm	ASTM D5185(m)		3	4	
Sulfur	ppm	ASTM D5185(m)		454	482	
Lithium	ppm	ASTM D5185(m)		<1	<1	
			limit/base			biotory ()
CONTAMINANTS		method		current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	2	4	
Sodium	ppm	ASTM D5185(m)		<1	0	
Potassium	ppm	ASTM D5185(m)		2	0	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>e</b> 52945	44070	
Particles >6µm		ASTM D7647	>1300	<u> </u>	<b>4</b> 9317	
Particles >14µm		ASTM D7647	>160	66	<b>1</b> 82	
Particles >21µm		ASTM D7647		10	48	
Particles >38µm		ASTM D7647	>10	1	1	
Particles >71µm		ASTM D7647	>3	0	1	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>e</b> 23/20/13	• 23/20/15	
)9:31:38) Rev: 1				Contact/Loca	ation: Ryan Shea	- GRA685CAM



# **OIL ANALYSIS REPORT**

mg KOH/g ASTM D974\*

Visual\*

scalar

0.26

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

>0.1

0.24

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

0.26

NONE

NONE

NONE

NONE

NONE

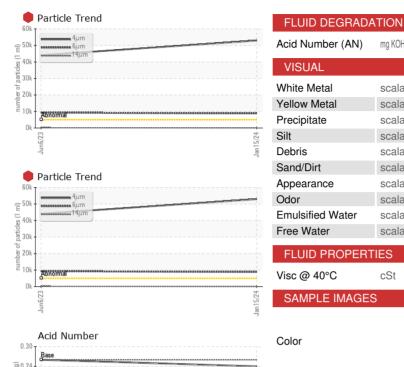
NONE

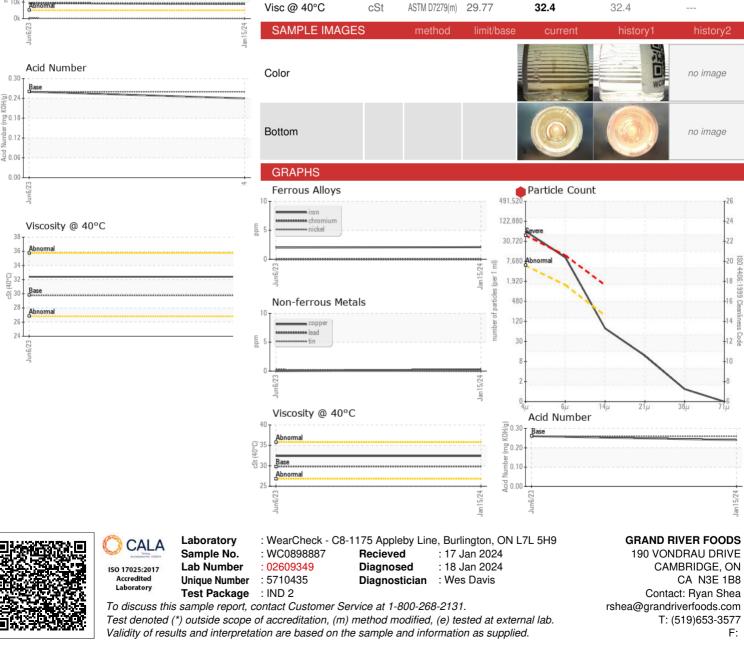
NORML

NORML

NEG

NEG





Contact/Location: Ryan Shea - GRA685CAM