

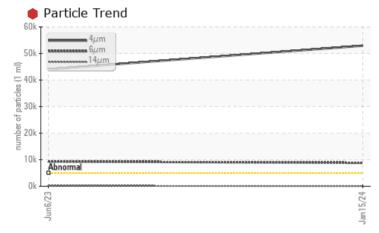
Sample Rating Trend ISO

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

Sample Status		SEVERE	SEVERE	
Particles >4µm	ASTM D7647 >5000) 🛑 52945	44070	
Particles >6µm	ASTM D7647 >1300) A 8832	9 317	
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	e 52945	44070	
Particles >6µm		ASTM D7647	>1300	<u> </u>	4 9317	
Particles >14µm		ASTM D7647	>160	66	1 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	e 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

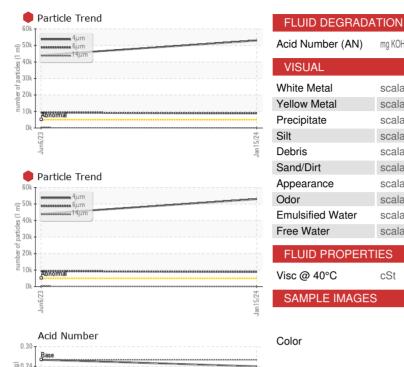
NONE

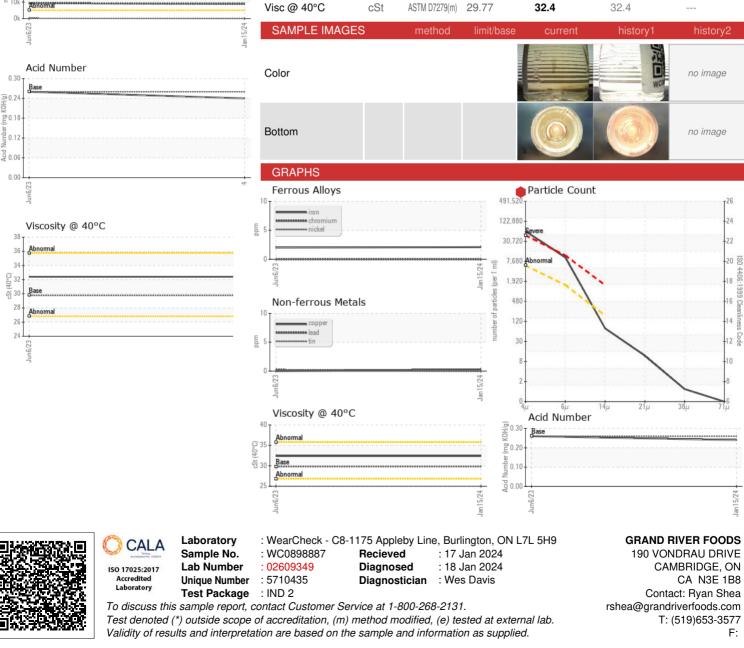
NORML

NORML

NEG

NEG





Contact/Location: Ryan Shea - GRA685CAM