

PROBLEM SUMMARY

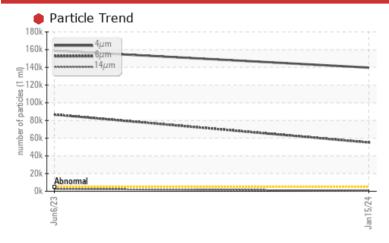
Area [133370] COMBO #9

Component **Hydraulic System**

PETRO CANADA PURITY FG AW HYDRAULIC 32 (3 GAL)

Sample Rating Trend

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	139689	158804						
Particles >6µm	ASTM D7647	>1300	55066	86648						
Particles >14µm	ASTM D7647	>160	657	2590						
Oil Cleanliness	ISO 4406 (c)	>19/17/14	2 4/23/17	24/24/19						

Customer Id: GRA685CAM Sample No.: WC0898879 Lab Number: 02609346 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 ACTIONS							
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



We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. 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. 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 particulates (2 to 100 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.



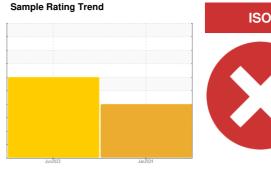


OIL ANALYSIS REPORT

[133370] **COMBO #9**

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.

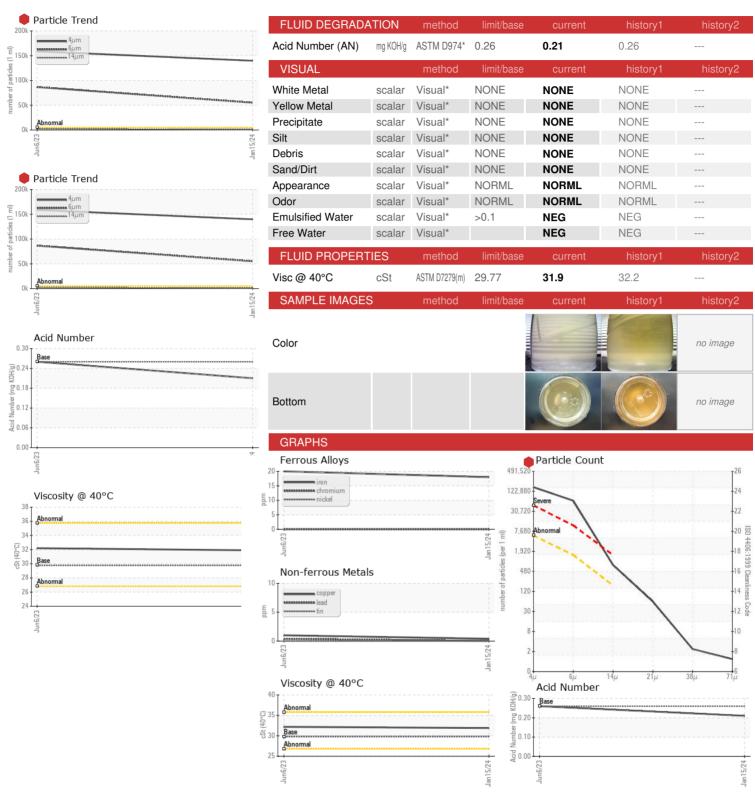
Fluid Condition

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

ILIC 32 (3 GAL)			Jun 2023	Jan 2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0898879	WC0808194	
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		Client Info		N/A	N/A	
Sample Status				SEVERE	SEVERE	
CONTAMINATION	١	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	18	20	
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	2	2	
Lead	ppm	ASTM D5185(m)	>10	0	<1	
Copper	ppm	ASTM D5185(m)	>75	<1	1	
Tin	ppm	ASTM D5185(m)	>10	0	0	
Antimony	ppm	ASTM D5185(m)		0	0	
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)		0	0	
Molybdenum	ppm	ASTM D5185(m)		0	0	
Manganese	ppm	ASTM D5185(m)		0	<1	
Magnesium	ppm	ASTM D5185(m)		<1	<1	
Calcium	ppm	ASTM D5185(m)		<1	<1	
Phosphorus	ppm	ASTM D5185(m)		452	527	
Zinc	ppm	ASTM D5185(m)		4	8	
Sulfur	ppm	ASTM D5185(m)		441	483	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	4	5	
Sodium	ppm	ASTM D5185(m)		<1	2	
Potassium	ppm	ASTM D5185(m)	>20	2	2	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	139689	158804	
Particles >6µm		ASTM D7647	>1300	55066	● 86648	
Particles >14μm		ASTM D7647	>160	△ 657	2590	
Particles >21µm		ASTM D7647	>40	53	<u>▲</u> 181	
Particles >38μm		ASTM D7647	>10	2	1	
Particles >71µm		AOTA DEGAT	0			
ι αιτισίου > τ τμιτί		ASTM D7647	>3	1	0	



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number **Unique Number**

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

: WC0898879 : 02609346 : 5710432 Test Package : IND 2

: 17 Jan 2024 Recieved Diagnosed Diagnostician

: 18 Jan 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.

GRAND RIVER FOODS 190 VONDRAU DRIVE CAMBRIDGE, ON

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