

PROBLEM SUMMARY

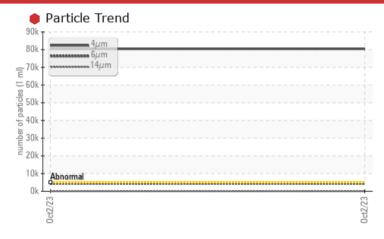
Area [111169] **DUMPER #8**

Component **Hydraulic System**

PETRO CANADA PURITY FG AW HYDRAULIC 32 (3 LTR)

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					
Particles >4µm	ASTM D7647	>5000	80435					
Particles >6µm	ASTM D7647	>1300	4406					
Oil Cleanliness	ISO 4406 (c)	>19/17/14	2 4/19/12					

Customer Id: GRA685CAM **Sample No.:** WC0850447 Lab Number: 02586753 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

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

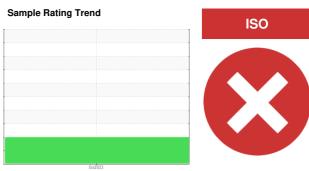


OIL ANALYSIS REPORT

Area [1111169] **DUMPER #8**

Hydraulic System

PETRO CANADA PURITY FG AW HYDRAU



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.

LIC 32 (3 LTR)				Oct2023		
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0850447		
Sample Date		Client Info		02 Oct 2023		
Machine Age	mths	Client Info		0		
Oil Age	mths	Client Info		3		
Oil Changed		Client Info		N/A		
Sample Status				SEVERE		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>20	12		
Chromium	ppm	ASTM D5185(m)	>10	2		
Nickel	ppm	ASTM D5185(m)	>10	1		
Γitanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		<1		
Aluminum	ppm	ASTM D5185(m)	>10	<1		
ead	ppm	ASTM D5185(m)	>10	<1		
Copper	ppm	ASTM D5185(m)		<1		
-in	ppm	ASTM D5185(m)	>10	0		
Antimony		ASTM D5185(m)	>10	0		
/anadium	ppm	ASTM D5185(m)		0		
	ppm					
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<1		
Barium	ppm	ASTM D5185(m)		<1		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		0		
Calcium	ppm	ASTM D5185(m)		<1		
Phosphorus	ppm	ASTM D5185(m)		462		
Zinc Zinc	ppm	ASTM D5185(m)		8		
Sulfur	ppm	ASTM D5185(m)		505		
ithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	4		
Sodium	ppm	ASTM D5185(m)		<1		
Potassium	ppm	ASTM D5185(m)	>20	0		
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	80435		
Particles >6µm		ASTM D7647	>1300	4406		
Particles >14µm		ASTM D7647	>160	23		
Particles >21µm		ASTM D7647	>40	6		
Particles >38µm		ASTM D7647	>10	1		
Particles >71µm		ASTM D7647	>3	0		
Dil Cleanliness		ISO 4406 (c)	>19/17/14	2 4/19/12		
FLUID DEGRADA	TION _	method	limit/base	current	history1	history2

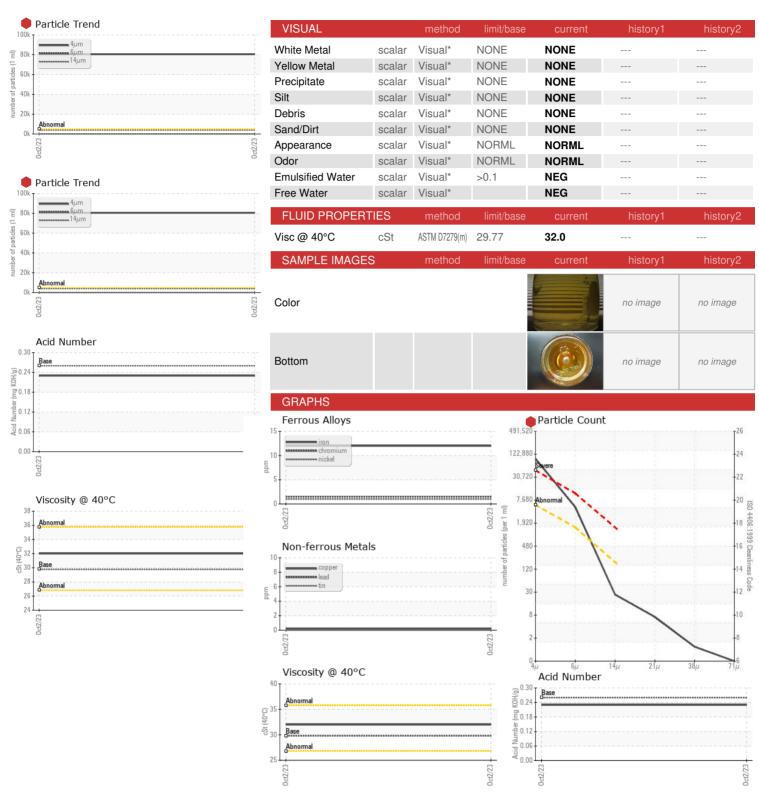
Acid Number (AN)

mg KOH/g ASTM D974* 0.26

Contact/Location: Ryan Shea - GRA685CAM



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

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

: WC0850447

: 02586753 : 5655819 Test Package : IND 2

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : 04 Oct 2023 Received : 05 Oct 2023 Diagnosed : Kevin Marson

Diagnostician

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.

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F: