

PROBLEM SUMMARY

Sample Rating Trend

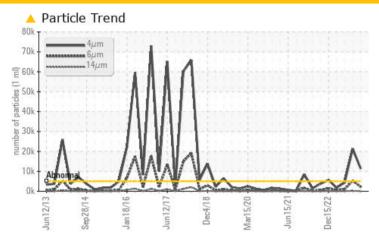
ISO

2 Phoenix/020 ISO Dewax/P Pump/100 Feed Pump N/A 20P100 (East)

Pump Fluid

PETRO CANADA TURBOFLO 32 (136 LTR)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

PROBLEMATIC TES	ST RESULTS				
Sample Status			ABNORMAL	ABNORMAL	NORMAL
Particles >4µm	ASTM D7647	>5000	<u> </u>	<u>^</u> 21359	4313
Particles >6µm	ASTM D7647	>1300	<u>2218</u>	<u></u> 5314	1025
Oil Cleanliness	ISO 4406 (c)	>19/17/14	21/18/13	22/20/15	19/17/13

Customer Id: PETMIS Sample No.: WC0883392 Lab Number: 02603330 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			?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

30 Oct 2023 Diag: Wes Davis

ISO



We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate 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.



15 Sep 2023 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

15 Mar 2023 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

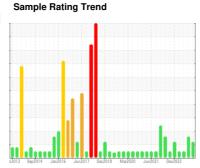
OIL ANAL 1313 REPORT

2 Phoenix/020 ISO Dewax/P Pump/100 Feed Pump N/A 20P100 (East)

Component

Pump

PETRO CANADA TURBOFLO 32 (136 LTR)





DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate 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.

n2013 Sep2014 Jan2016 Jun2017 Dec2018 Mar2020 Jun2021 Dec2022								
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		WC0883392	WC0822067	WC0851461		
Sample Date		Client Info		15 Dec 2023	30 Oct 2023	15 Sep 2023		
Machine Age	hrs	Client Info		0	0	0		
Oil Age	hrs	Client Info		0	0	0		
Oil Changed		Client Info		N/A	N/A	N/A		
Sample Status				ABNORMAL	ABNORMAL	NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2		
Water		WC Method	>.1	NEG	NEG	NEG		
WEAR METALS		method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185(m)	>90	0	0	0		
Chromium	ppm	ASTM D5185(m)	>5	0	0	0		
Nickel	ppm	ASTM D5185(m)	>5	0	0	0		
Titanium	ppm	ASTM D5185(m)	>3	0	0	0		
Silver	ppm	ASTM D5185(m)	>3	<1	0	<1		
Aluminum	ppm	ASTM D5185(m)	>7	0	<1	0		
Lead	ppm	ASTM D5185(m)	>12	0	0	0		
Copper	ppm	ASTM D5185(m)	>30	<1	<1	<1		
Tin	ppm	ASTM D5185(m)	>9	0	0	0		
Antimony	ppm	ASTM D5185(m)		0	0	0		
Vanadium	ppm	ASTM D5185(m)		0	0	0		
Beryllium	ppm	ASTM D5185(m)		0	0	0		
Cadmium	ppm	ASTM D5185(m)		0	0	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185(m)	0	<1	0	<1		
Barium	ppm	ASTM D5185(m)	0	<1	<1	<1		
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0		
Manganese	ppm	ASTM D5185(m)		0	0	0		
Magnesium	ppm	ASTM D5185(m)	0	0	0	0		
Calcium	ppm	ASTM D5185(m)	0	<1	<1	<1		
Phosphorus	ppm	ASTM D5185(m)	120	4	6	6		
Zinc	ppm	ASTM D5185(m)	0.0	<1	<1	1		
Sulfur	ppm	ASTM D5185(m)	0	780	613	764		
Lithium	ppm	ASTM D5185(m)		<1	<1	<1		
CONTAMINANT	S	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185(m)	>60	0	0	0		
Sodium	ppm	ASTM D5185(m)		0	0	<1		
Potassium	ppm	ASTM D5185(m)	>20	0	0	0		
FLUID CLEANLI	NESS	method	limit/base	current	history1	history2		
Particles >4µm		ASTM D7647	>5000	<u> </u>	<u>^</u> 21359	4313		
Particles >6µm		ASTM D7647	>1300	<u>2218</u>	△ 5314	1025		
Particles >14μm		ASTM D7647	>160	50	<u>^</u> 221	70		
Particles >21µm		ASTM D7647	>40	7	35	30		
Particles >38µm		ASTM D7647	>10	0	1	4		
Particles >71μm		ASTM D7647	>3	0	1	0		

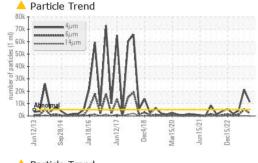
ISO 4406 (c) >19/17/14 **21/18/13**

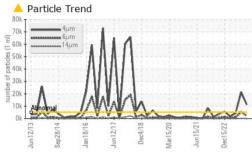
Oil Cleanliness

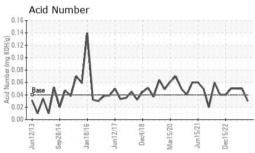
22/20/15

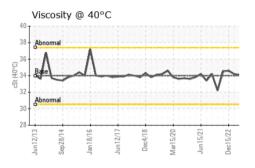


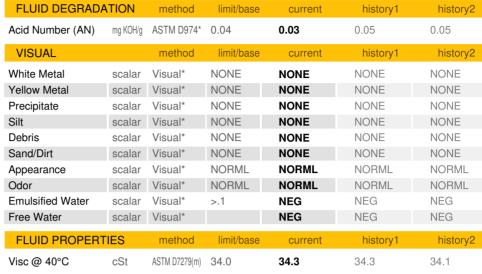
OIL ANALYSIS REPORT











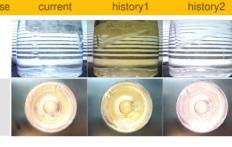
SAMPLE IMAGES

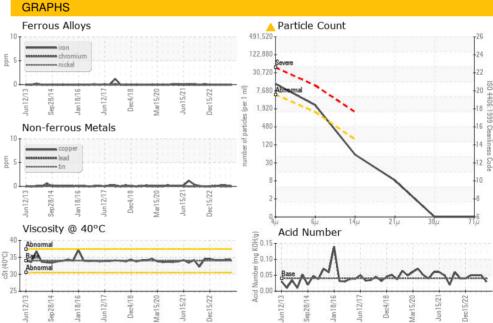
limit/base method

current

Color

Bottom





: 14 Dec 2023

: 15 Dec 2023

: Wes Davis



CALA ISO 17025:2017 Accredited

Laboratory

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

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0883392

: 02603330

Received Diagnosed : 5696415 Diagnostician

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.

385 Southdown Road Mississauga, ON CA L5J 2Y3

Contact: Kyle Blezard kyle.blezard@HFSinclair.com

T: (905)403-6768 F: (905)822-6025