

PROBLEM SUMMARY

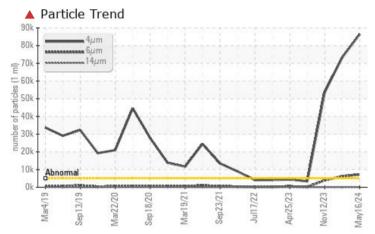
Machine Id

B53016 - POWER UNIT TOYO MULTIVAC

Hydraulic System

PETRO CANADA PURITY FG AW HYDRAULIC 46 (40 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.

PROBLEMATIC TEST RESULTS							
Sample Status		SEVERE	SEVERE	ABNORMAL			
Particles >4µm	ASTM D7647 >5000	▲ 86463	▲ 73397	▲ 53704			
Particles >6µm	ASTM D7647 >1300	<u> </u>	6176	A 3965			
Oil Cleanliness	ISO 4406 (c) >19/17	/14 🔺 24/20/9	▲ 23/20/11	▲ 23/19/12			

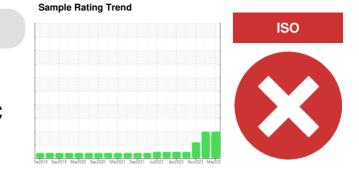
Customer Id: PRODUB Sample No.: WC0908021 Lab Number: 06182759 Test Package: IND 2



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: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com



RECOMMENDED	ACTIONS			
Action Change Filter	Status	Date	Done By	Description We recommend you service the filters on this component.
Resample			?	Resample in 30-45 days to monitor this situation.
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



21 Feb 2024 Diag: Wes Davis

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.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness code is much higher than the acceptable limit for the target ISO 4406 cleanliness code. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.





12 Nov 2023 Diag: Don Baldridge

We recommend you service the filters on this component. Resample at the next service interval to monitor.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 condition of the oil is suitable for further service.





03 Aug 2023 Diag: Wes Davis

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.





Machine Id

B53016 - POWER UNIT TOYO MULTIVAC

Hydraulic System

PETRO CANADA PURITY FG AW HYDRAULIC 46 (40 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.

Wear

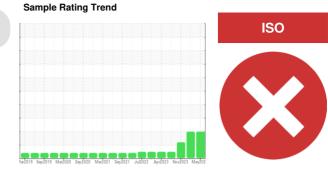
All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness code is much higher than the acceptable limit for the target ISO 4406 cleanliness code.

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.

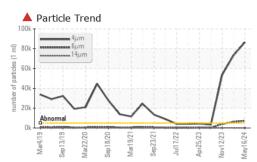


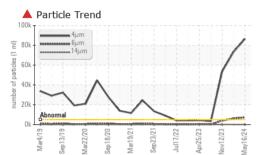
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0908021	WC0880501	WC0842540
Sample Date		Client Info		16 May 2024	21 Feb 2024	12 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	ABNORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	5	0	2
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	<1	0	<1
Tin	ppm	ASTM D5185m	>20	<1	0	0
Vanadium	ppm	ASTM D5185m	-	0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		348	372	341
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		540	478	311
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	3	3	4
Sodium	ppm	ASTM D5185m		<1	0	<1
Potassium	ppm	ASTM D5185m	>20	0	0	<1
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ 86463	▲ 73397	▲ 53704
Particles >6µm		ASTM D7647	>1300	<u> </u>	6 176	▲ 3965
Particles >14µm		ASTM D7647	>160	4	18	26
Particles >21µm		ASTM D7647	>40	1	2	4
Particles >38µm		ASTM D7647	>10	1	0	0
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	4/20/9	▲ 23/20/11	▲ 23/19/12
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.26	0.20	0.21	0.18
:30:43) Rev: 1					Submitted Bv:	

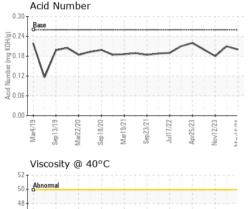
Submitted By: BLAINE PURDY Page 3 of 4

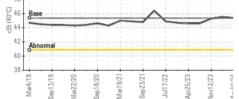


OIL ANALYSIS REPORT

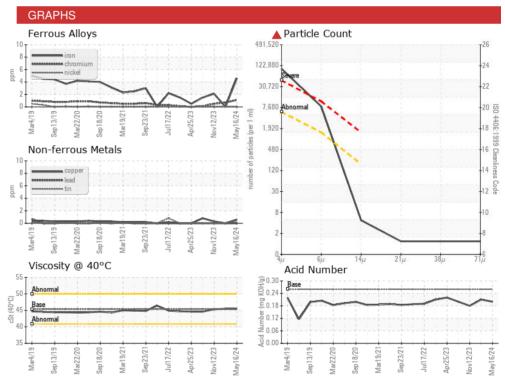








VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
	IES	method	limit/base	current	history1	history2
FLUID PROPERT Visc @ 40°C	TES cSt	method ASTM D445	limit/base	current	history1 45.5	history2 45.3
FLUID PROPERT Visc @ 40°C SAMPLE IMAGES	cSt					
Visc @ 40°C	cSt	ASTM D445	45.36	45.4	45.5	45.3



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **PROGRESSIVE PROCESSING INC** Sample No. : WC0908021 Received : 17 May 2024 1205 CHAVENELLE CT Lab Number : 06182759 Tested : 22 May 2024 DUBUQUE, IA Unique Number : 11034085 Diagnosed : 22 May 2024 - Wes Davis US 52002 Test Package : IND 2 Contact: BLAINE PURDY Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. bepurdy@hormel.com T: (563)557-4500 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: PRODUB [WUSCAR] 06182759 (Generated: 05/22/2024 04:30:44) Rev: 1

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F: (563)557-4508