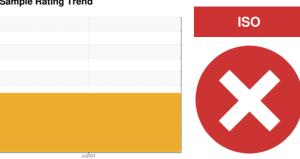


PROBLEM SUMMARY

Sample Rating Trend

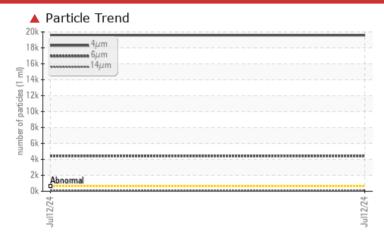




Hydraulic System

PETRO CANADA PURITY FG SYNTH EP GEAR FLUID 460 (4 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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.

PROBLEMATIC TEST RESULTS									
Sample Status		SEVERE							
Particles >4µm	ASTM D7647	>640 A 19585							
Particles >6µm	ASTM D7647	>160 4424							
Particles >14µm	ASTM D7647	>20 🛕 105							
Particles >21μm	ASTM D7647	>4 🛕 12							
Oil Cleanliness	ISO 4406 (c)	>16/14/11 21/19/14							

Customer Id: BLURICIN Sample No.: WC0965383 Lab Number: 06239133 Test Package: PLANT



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	Status	Date	Done By	Description			
Change Filter			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.			
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 Dirt Access			?	We advise that you check all areas where contaminants can enter the system.			
Filter Fluid			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.			

HISTORICAL DIAGNOSIS

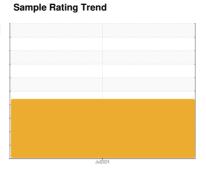


OIL ANALYSIS REPORT



Hydraulic System

PETRO CANADA PURITY FG SYNTH EP GEAR FLUID 460 (4 GAL)





DIAGNOSIS

Recommendation

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.

Wear

All component wear rates are normal.

▲ Contamination

There is a high amount of particulates (2 to 100 microns in size) present in the oil. The water content is negligible. The system cleanliness code is much higher than the acceptable limit for the target ISO 4406 cleanliness code.

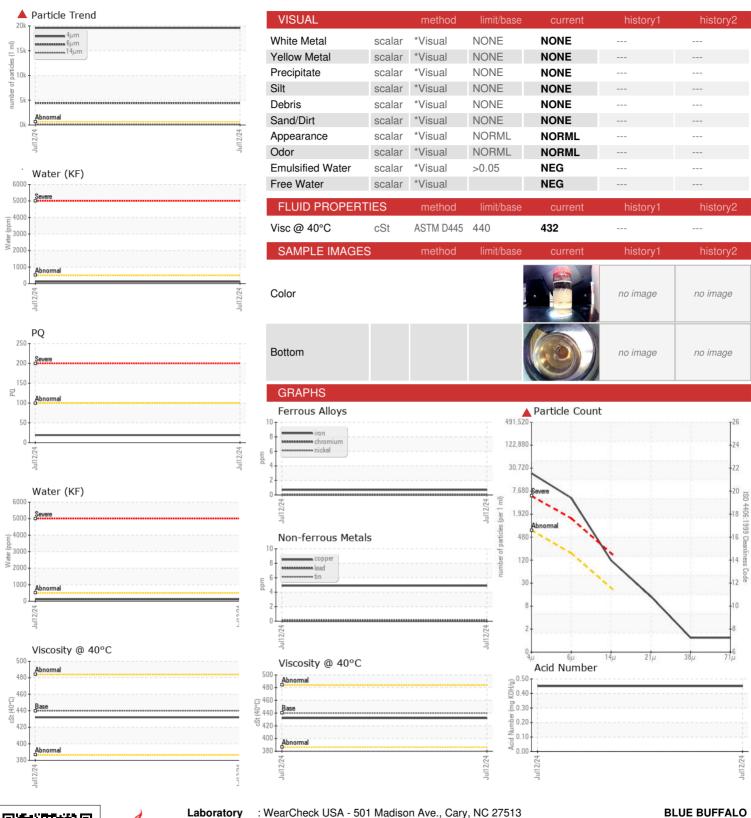
Fluid Condition

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

AR FLUID 460 (4	4 GAL)	·		Jul2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0965383		
Sample Date		Client Info		12 Jul 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				SEVERE		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		19		
Iron	ppm	ASTM D5185m	>20	<1		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>20	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>20	0		
Lead	ppm	ASTM D5185m	>20	0		
Copper	ppm	ASTM D5185m	>20	5		
Tin	ppm	ASTM D5185m		<1		
Vanadium	ppm	ASTM D5185m	•	0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m	0	<1		
Calcium	ppm	ASTM D5185m	0	5		
Phosphorus	ppm	ASTM D5185m	600	505		
Zinc	ppm	ASTM D5185m	0	0		
Sulfur	ppm	ASTM D5185m	500	630		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1		
Sodium	ppm	ASTM D5185m		<1		
Potassium	ppm	ASTM D5185m	>20	0		
Water	%	ASTM D6304	>0.05	0.010		
ppm Water	ppm	ASTM D6304	>500	109		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>640	19585		
Particles >6µm		ASTM D7647	>160	4424		
Particles >14μm		ASTM D7647	>20	<u> </u>		
Particles >21µm		ASTM D7647	>4	<u> </u>		
Particles >38µm		ASTM D7647	>3	1		
Particles >71μm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)	>16/14/11	2 1/19/14		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: WC0965383 Lab Number : 06239133 Unique Number : 11127967 Test Package : PLANT

Received **Tested** Diagnosed

: 17 Jul 2024 : 19 Jul 2024 : 19 Jul 2024 - Wes Davis 4748 WEST INDUSTRIES ROAD RICHMOND, IN

US 47374 Contact: KEVIN KEITH kkeith@bluebuff.com T: (765)200-6535

To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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)