

PROBLEM SUMMARY

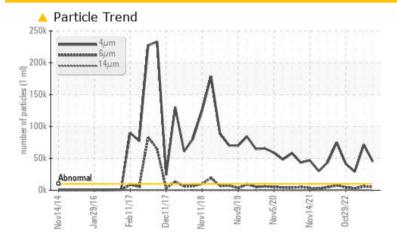
RP-101 **B57019 GREEN CRAX AUGER**

Component Gearbox

PETRO CANADA ENDURATEX EP 320 (--- QTS)

Sample Rating Trend ISO

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

PROBLEMATIC TEST RESULTS							
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL		
Particles >4µm	ASTM D7647	>10000	<u>44971</u>	<u>∧</u> 71511	<u>\$\text{28949}\$</u>		
Particles >6µm	ASTM D7647	>2500	5355	△ 6017	▲ 3003		
Oil Cleanliness	ISO 4406 (c)	>20/18/15	23/20/15	23/20/14	22/19/15		

Customer Id: HORAUS Sample No.: WC0826157 Lab Number: 05927203 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	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.
Information Required			?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

HISTORICAL DIAGNOSIS

07 May 2023 Diag: Jonathan Hester



No corrective action is recommended at this time. 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.



11 Feb 2023 Diag: Wes Davis



We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. Oil Cleanliness are abnormally high. Particles >4µm are abnormally high. Particles >6µm are notably high. The system cleanliness is above 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.



29 Oct 2022 Diag: Wes Davis



We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. Oil Cleanliness are abnormally high. Particles >21µm are abnormally high. Particles >4µm are abnormally high. Particles >6µm are notably high. Particles >14µm are notably high. The system cleanliness is above 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.



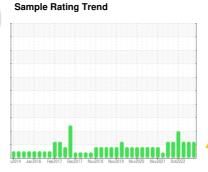


OIL ANALYSIS REPORT

RP-101 **B57019 GREEN CRAX AUGER**

Gearbox

PETRO CANADA ENDURATEX EP 320 (--- QTS)





DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness is above 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.

		v2014 Jan201	6 Feb2017 Dec2017 Nov.	2018 Nov2019 Nov2020 Nov2021	0ct2022	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0826157	WC0791989	WC0765480
Sample Date		Client Info		06 Aug 2023	07 May 2023	11 Feb 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	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	18	15	7
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	0	0
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	<1	0	0
Tin	ppm	ASTM D5185m	>25	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	55	11	15	10
Barium	ppm	ASTM D5185m	0	0	2	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	0	3	<1	0
Calcium	ppm	ASTM D5185m	0	6	6	5
Phosphorus	ppm	ASTM D5185m	240	460	419	430
Zinc	ppm	ASTM D5185m	1	21	23	19
Sulfur	ppm	ASTM D5185m	13700	6394	6042	6422
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	8	26	5
Sodium	ppm	ASTM D5185m		1	0	0
Potassium	ppm	ASTM D5185m	>20	3	2	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	44971	<u> </u> 71511	28949
Particles >6µm		ASTM D7647	>2500	<u></u> 5355	▲ 6017	▲ 3003
Particles >14µm		ASTM D7647	>320	309	86	195
Particles >21µm		ASTM D7647	>80	95	11	51
Particles >38μm		ASTM D7647	>20	4	0	2
Particles >71μm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	23/20/15	△ 23/20/14	<u>22/19/15</u>
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.90	0.89	0.85



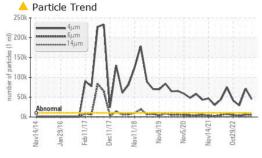
Acid Number

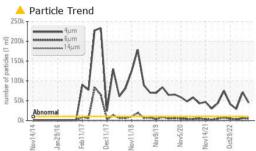
1.00

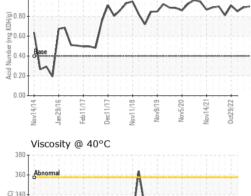
₹ 320

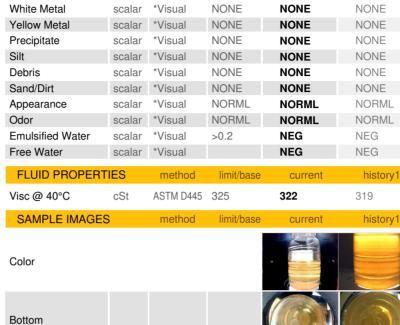
OIL ANALYSIS REPORT

VISUAL









method

limit/base

current

history1

history2

NONE

NONE

NONE

NONE

LIGHT

NONE

NORML

NORML

history2

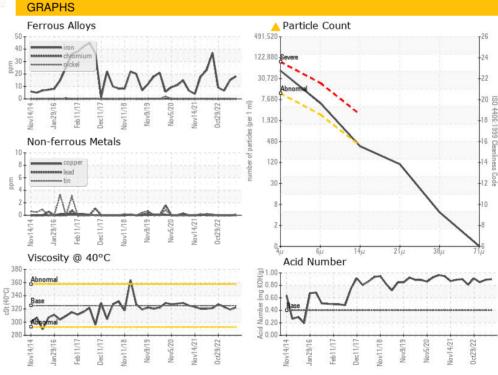
history2

NEG

NEG

323









Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10607150

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : WC0826157 : 17 Aug 2023 : 18 Aug 2023 : 05927203 Diagnosed : Wes Davis Diagnostician

Test Package : IND 2 (Additional Tests: PrtCount) To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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)

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