

## **PROBLEM SUMMARY**

## Sample Rating Trend

ISO

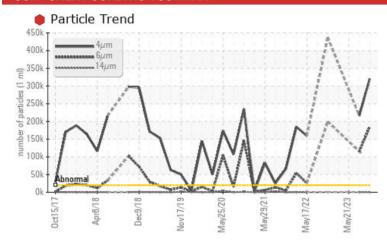
FP-011

# A11620 - ALFA LAVAL SEPERATOR (S/N 42568)

Gearbox

PETRO CANADA ENDURATEX SYNTHETIC EP 320 (--- 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. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

PROBLEMATIC TEST RESULTS										
Sample Status			SEVERE	SEVERE	ABNORMAL					
Particles >4µm	ASTM D7647	>20000	<b>320116</b>	<b>216073</b>						
Particles >6μm	ASTM D7647	>5000	185112	115342						
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<b>26/25/16</b>	<b>25/24/16</b>						

Customer Id: HORAUS Sample No.: WC0826106 Lab Number: 05904329 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 ? Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type ? Information Required and micron rating with next sample. The air breather requires service. If unrated, we recommend that you replace with a **Check Breathers** ? 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

## 25 Jun 2023 Diag: Wes Davis

ISO



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. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.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.



## 21 May 2023 Diag: Don Baldridge

WATER



We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



## 08 May 2023 Diag: Don Baldridge

VIS DEBRIS



We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





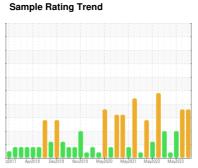
## **OIL ANALYSIS REPORT**

FP-011

# A11620 - ALFA LAVAL SEPERATOR (S/N 42568)

Gearbox

PETRO CANADA ENDURATEX SYNTHETIC EP 320 (--- 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. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with 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. The system cleanliness code is much higher than the acceptable limit for the target ISO 4406 cleanliness code.

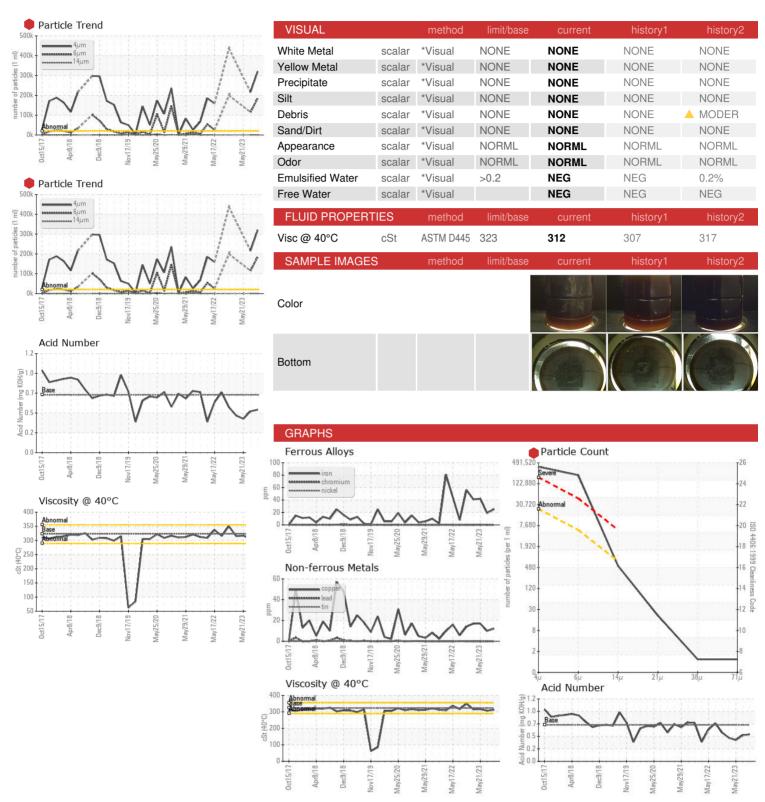
## **Fluid Condition**

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 INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0826106	WC0814181	WC0781451
Sample Date		Client Info		16 Jul 2023	25 Jun 2023	21 May 2023
Machine Age	days	Client Info		0	0	0
Oil Age	days	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>200	25	19	42
Chromium	ppm	ASTM D5185m	>15	0	0	<1
Nickel	ppm	ASTM D5185m	>15	0	0	<1
Γitanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	0	0
_ead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	12	10	17
Γin	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	33	30	18	22
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	5	3	4	5
Calcium	ppm	ASTM D5185m	5	8	14	12
Phosphorus	ppm	ASTM D5185m	437	347	342	279
Zinc	ppm	ASTM D5185m	5	7	6	8
Sulfur	ppm	ASTM D5185m	5000	19762	18377	17866
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	1	<1	2
Sodium	ppm	ASTM D5185m		94	54	88
Potassium	ppm	ASTM D5185m	>20	43	31	53
FLUID CLEANLII	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	320116	216073	
Particles >6µm		ASTM D7647		<b>185112</b>	115342	
Particles >14μm		ASTM D7647	>640	471	453	
Particles >21μm		ASTM D7647		18	18	
Particles >38μm		ASTM D7647	>40	1	0	
Particles >71μm		ASTM D7647		1	0	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>2</b> 6/25/16	25/24/16	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.7	0.52	0.50	0.41



## OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No.

Lab Number

**Unique Number** 

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

: WC0826106 : 05904329 : 10565685

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

Received

Diagnosed

: 21 Jul 2023

: 24 Jul 2023

: Wes Davis

\* - 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)

**HORMEL FOODS - AUSTIN** 

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