

PROBLEM SUMMARY

Sample Rating Trend

ISO

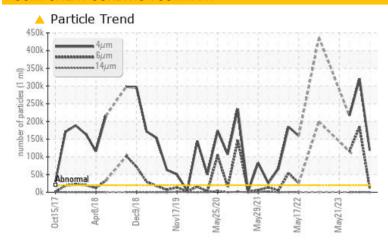
FP-011

A11620 - ALFA LAVAL SEPERATOR (S/N 42568)

Gearbox

PETRO CANADA ENDURATEX SYNTHETIC EP 320 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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	SEVERE	SEVERE			
Particles >4µm	ASTM D7647	>20000	<u> </u>	320116	216073			
Particles >6µm	ASTM D7647	>5000	<u> </u>	185112	115342			
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<u> 24/21/13</u>	2 6/25/16	25/24/16			

Customer Id: HORAUS Sample No.: WC0799667 Lab Number: 05928133 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

16 Jul 2023 Diag: Wes Davis

X

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.



25 Jun 2023 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. 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





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.





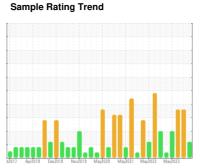
OIL ANALYSIS REPORT

FP-011

A11620 - ALFA LAVAL SEPERATOR (S/N 42568)

Gearbox

PETRO CANADA ENDURATEX SYNTHETIC EP 320 (--- GAL)





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.

Wear

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.

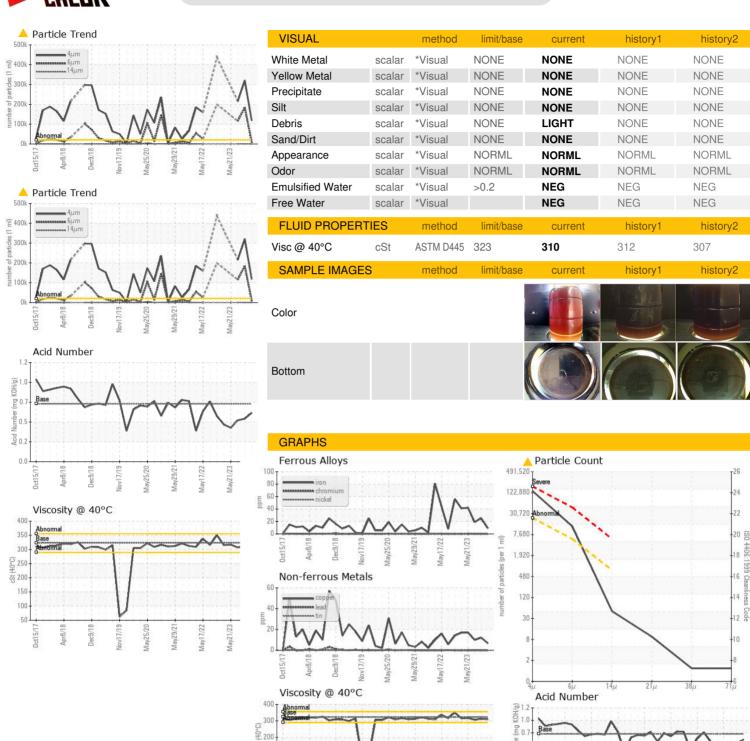
Fluid Condition

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

CAMPLE INCOM	AATION		11		1.5	L.L.
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0799667	WC0826106	WC0814181
Sample Date		Client Info		19 Aug 2023	16 Jul 2023	25 Jun 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				ABNORMAL	SEVERE	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	9	25	19
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	0	<1	0
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	7	12	10
Tin	ppm	ASTM D5185m	>25	0	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	33	14	30	18
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	5	1	3	4
Calcium	ppm	ASTM D5185m	5	3	8	14
Phosphorus	ppm	ASTM D5185m	437	305	347	342
Zinc	ppm	ASTM D5185m	5	4	7	6
Sulfur	ppm	ASTM D5185m	5000	20371	19762	18377
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	0	1	<1
Sodium	ppm	ASTM D5185m		19	94	54
Potassium	ppm	ASTM D5185m	>20	11	43	31
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	118360	320116	2 16073
Particles >6µm		ASTM D7647	>5000	<u> </u>	185112	115342
Particles >14μm		ASTM D7647	>640	43	471	453
Particles >21µm		ASTM D7647	>160	8	18	18
Particles >38µm		ASTM D7647	>40	1	1	0
Particles >71µm		ASTM D7647	>10	1	1	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>4</u> 24/21/13	2 6/25/16	25/24/16
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.7	0.59	0.52	0.50



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No.

Lab Number

Unique Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0799667 : 05928133

300 St (40°C)

: 10608080

Received Diagnosed 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)

HORMEL FOODS - AUSTIN

1101 NORTH MAIN ST AUSTIN, MN US 55912

Contact: RYAN LOWE rslowe@hormel.com T: (507)437-5674

Report Id: HORAUS [WUSCAR] 05928133 (Generated: 08/21/2023 09:46:28) Rev: 1

Contact/Location: RYAN LOWE - HORAUS

0.5 0.2 0.2 Acid O'O

: 18 Aug 2023

: 21 Aug 2023

: Wes Davis

F: (507)437-9805