

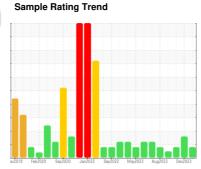
OIL ANALYSIS REPORT

KC-139

B46315 - CENTRIFUGE ALFA LAVAL AFPX513XGD-74CG (S/N 4138485/2006)

Gearbox

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





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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.

SAMPLE INFORM	MATION	mothed	limit/base			hiotoryO
	MATION	method	ilmit/base		history1	history2
Sample Number		Client Info		WC0880557	WC0866748	WC0866781
Sample Date		Client Info		10 Jan 2024	03 Dec 2023	26 Nov 2023
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ATTENTION
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	24	7	5
Chromium	ppm	ASTM D5185m	>15	<1	<1	0
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	1	1
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	13	8	8
Tin	ppm	ASTM D5185m	>25	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	33	1	3	3
Barium	ppm	ASTM D5185m	5	3	3	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	5	0	<1	<1
Calcium	ppm	ASTM D5185m	5	2	3	1
Phosphorus	ppm	ASTM D5185m	437	367	346	321
Zinc	ppm	ASTM D5185m	5	0	6	0
Sulfur	ppm	ASTM D5185m	5000	18923	16829	15676
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	3	2	12
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	1	<1	1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	45048	▲ 51845	2 4300
Particles >6µm		ASTM D7647	>5000	4756	△ 10883	2404
Particles >14μm		ASTM D7647	>640	109	▲ 642	107
Particles >21µm		ASTM D7647	>160	19	143	26
Particles >38µm		ASTM D7647	>40	0	5	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	23/19/14	<u>△</u> 23/21/17	2 2/18/14
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
A : 1 N (AN)	1/011/	4.OTI 4.D00.45		0.74		0.75

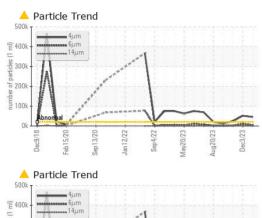
Acid Number (AN)

mg KOH/g ASTM D8045 0.7

0.73



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	NONE	NONE	NONE
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	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2

≘ 400k	4µm						
5 300k + 1	14µ1			1			
300k - 10 200k - 10 200k		200	****	1			
O ZUUK + ## ##							
upper							
100k -				1		_	
Ok Ok 81/6590	rmal		2 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	*	3		2

cSt Visc @ 40°C ASTM D445 323 316 312 315

SAMPLE IMAGES

method limit/base current

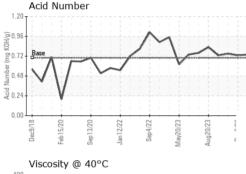
historv1

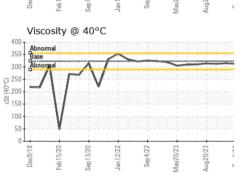
historv2

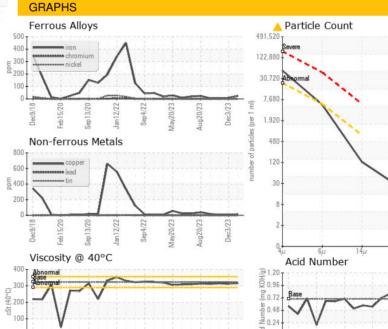
Color

Bottom









0.00 Acid

: Wes Davis



Certificate L2367

Unique Number

Laboratory Sample No. Lab Number

: WC0880557

: 06063550 : 10834932

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 17 Jan 2024 Diagnosed : 19 Jan 2024

Jan 12/22

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

Jan 12/22

1101 NORTH MAIN ST AUSTIN, MN US 55912

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

F: (507)437-9805

Contact/Location: RYAN LOWE - HORAUS