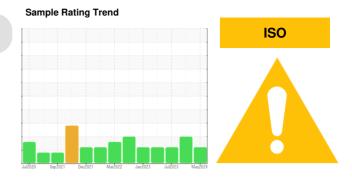


OIL ANALYSIS REPORT

FP-106 B57570 (S/N 544238)

Gearbox

PETRO CANADA ENDURATEX SYNTHETIC EP 220 (--- 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.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0923585	WC0885500	WC0820564
Sample Date		Client Info		02 May 2024	29 Jan 2024	02 Jul 2023
Machine Age	mls	Client Info		0	0	0
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION	V	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	8	24	23
Chromium	ppm	ASTM D5185m	>15	<1	0	0
Nickel	ppm	ASTM D5185m	>15	0	1	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	<1	1
Lead	ppm	ASTM D5185m	>100	0	<1	0
Copper	ppm	ASTM D5185m	>200	<1	2	<1
Tin	ppm		>25	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	nnm	ASTM D5185m	33	0	2	0
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	5	<1	2	2
Calcium	ppm	ASTM D5185m	5	53	5	<1
Phosphorus	ppm	ASTM D5185m	437	469	436	439
Zinc	ppm	ASTM D5185m	5	<1	1	3
Sulfur	ppm	ASTM D5185m	5000	1168	1704	2351
CONTAMINANTS						
		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	4	9	2
Sodium	ppm	ASTM D5185m		0	2	2
Potassium	ppm	ASTM D5185m	>20	1	4	4
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>10000	<u>^</u> 35134	<u>▲</u> 63720	<u>▲</u> 57597
Particles >6µm		ASTM D7647	>2500	<u>2727</u>	△ 9736	<u>^</u> 7409
Particles >14µm		ASTM D7647	>320	70	<u>^</u> 718	88
Particles >21µm		ASTM D7647	>80	13	<u></u> ▲ 188	12
Particles >38µm		ASTM D7647	>20	1	4	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<u>22/19/13</u>	<u>△</u> 23/20/17	▲ 23/20/14
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

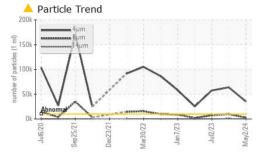
Acid Number (AN)

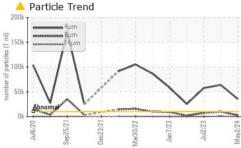
mg KOH/g ASTM D8045 0.7

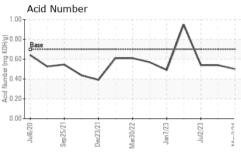
0.54 Contact/Location: RYAN LOWE - HORAUS

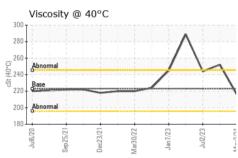


OIL ANALYSIS REPORT



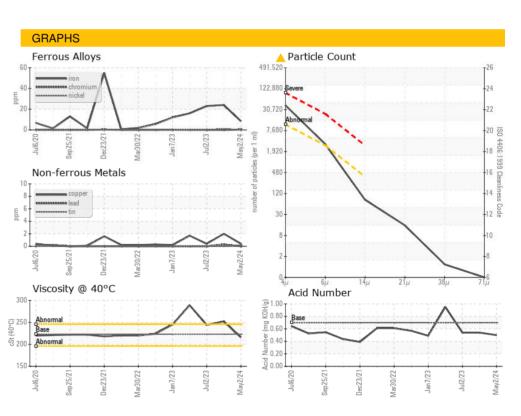






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	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	TES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	223	216	252	244

SAIVIPLE IIVIAGES	method	iiiiii/base	current
Color		a	
Bottom			







Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0923585

Lab Number : 06175432 Unique Number : 11021485

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

Test Package : IND 2 (Additional Tests: PrtCount)

Received **Tested**

: 10 May 2024 Diagnosed

: 13 May 2024

: 13 May 2024 - Wes Davis

history1

history2

US 55912 Contact: RYAN LOWE rslowe@hormel.com T: (507)437-5674 F: (507)437-9805

1101 NORTH MAIN ST

HORMEL FOODS - AUSTIN

* - 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) AUSTIN, MN