

OIL ANALYSIS REPORT

Area BATCH SYSTEM 3 Machine Id BS3 HOMO

Gearbox Fluid PETRO CANADA ENDURATEX EP 460 (--- LTR)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear

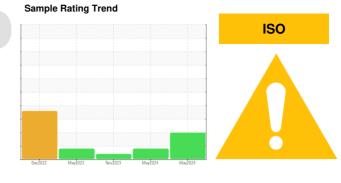
All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



		method	limit/hooo	ourroat	biotomit	biotom/0
SAMPLE INFOR			limit/base		history1	history2
Sample Number		Client Info		PCA0119929	PCA0117327	PCA0111052
Sample Date		Client Info		31 May 2024	20 May 2024	18 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ATTENTION	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	12	0	121
Chromium	ppm	ASTM D5185m	>15	0	0	<1
Nickel	ppm	ASTM D5185m	>15	0	0	1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>25	0	0	2
Lead	ppm	ASTM D5185m	>100	0	0	<1
Copper	ppm	ASTM D5185m	>200	5	<1	1
Tin	ppm	ASTM D5185m	>25	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	55	74	0	56
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	0	8	<1	48
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	2	0	0	3
Calcium	ppm	ASTM D5185m	6	3	50	8
Phosphorus	ppm	ASTM D5185m	240	303	367	398
Zinc	ppm	ASTM D5185m	3	5	467	29
Sulfur	ppm	ASTM D5185m	10310	7739	1078	7377
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	13	12	11
Sodium	ppm	ASTM D5185m		0	2	<1
Potassium	ppm	ASTM D5185m	>20	<1	<1	2
FLUID CLEAN	LINESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	134403	14100	
Particles >6µm		ASTM D7647	>2500	<u> </u>	1918	
Particles >14µm		ASTM D7647	>640	A 1355	54	
Particles >21µm		ASTM D7647	>160	<mark>/</mark> 397	12	
Particles >38µm		ASTM D7647	>40	29	0	
Particles >71µm		ASTM D7647	>10	7	0	
Oil Cleanliness		ISO 4406 (c)	>20/18/16	A 24/22/18	21/18/13	
FLUID DEGRAI		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.5	0.51	0.45	0.69
6:00:16) Rev: 1				S	Submitted Bv: Za	chary Patterso

Report Id: KRAMASIOW [WUSCAR] 06200115 (Generated: 06/07/2024 16:00:16) Rev: 1

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u 0.40 Jagung 0.30 -B 0.20

0.10

0.00

500 Base

400

<u>ි</u> 300

-73 200

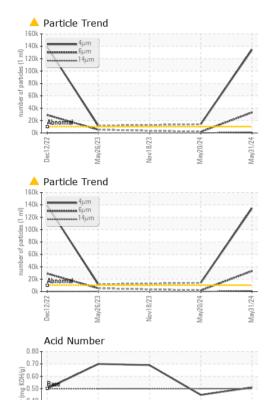
100

Dec12/22

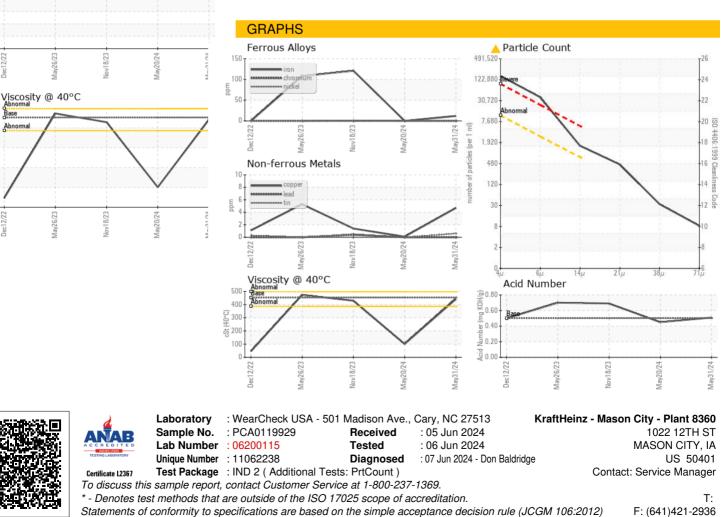
Dec1

Abnormal

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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	🔺 MODER
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 PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	452	442	101	429
SAMPLE IMAG	iES	method	limit/base	current	history1	history2
Color						



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: Zachary Patterson

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