

OIL ANALYSIS REPORT

Sample Rating Trend



RP-108

B58168 - CONVEYOR TRAMCO BLOOD LOADOUT (S/N FB-1768)

Gearbox

PETRO CANADA ENDURATEX EP 320 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. 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

Viscosity of sample indicates oil is within ISO 220 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

GAL)	w2015 Smp2016 Jul2017 Mw2018 Jun2018 Apr2020 Dm22020 Smp2021 Dm22022 Mw2024					
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0930411	WC0894929	WC0866751
Sample Date		Client Info		05 Jun 2024	20 Mar 2024	05 Dec 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	ABNORMAL
CONTAMINATION	١	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	11	3	2
Chromium	ppm	ASTM D5185m	>15	0	<1	0
Nickel	ppm	ASTM D5185m	>15	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	0	0
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	0	1	0
Tin	ppm	ASTM D5185m	>25	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
A D D I TIV / C O		40.00	12 24 7			111
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	55	current 13	history1 21	23
	ppm					
Boron		ASTM D5185m	55	13	21	23
Boron Barium	ppm	ASTM D5185m ASTM D5185m	55 0 0	13 1	21 0	23
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	55 0 0	13 1 0	21 0 <1	23 0 0
Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	55 0 0 0	13 1 0 <1	21 0 <1 <1	23 0 0
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	55 0 0 0 0	13 1 0 <1 1	21 0 <1 <1 0	23 0 0 0 0 <1
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	55 0 0 0 0 0	13 1 0 <1 1 7	21 0 <1 <1 0 <1	23 0 0 0 0 <1 4
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	55 0 0 0 0 0 0 240	13 1 0 <1 1 7 441	21 0 <1 <1 0 <1 422	23 0 0 0 0 <1 4 451
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	55 0 0 0 0 0 0 240	13 1 0 <1 1 7 441 55	21 0 <1 <1 0 <1 422 5	23 0 0 0 0 <1 4 451
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	55 0 0 0 0 0 0 240 1 13700	13 1 0 <1 1 7 441 55 5907	21 0 <1 <1 0 <1 422 5 6256	23 0 0 0 0 <1 4 451 14 5959
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	55 0 0 0 0 0 0 240 1 13700 limit/base	13 1 0 <1 1 7 441 55 5907 current	21 0 <1 <1 0 <1 422 5 6256 history1	23 0 0 0 <1 4 451 14 5959 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	55 0 0 0 0 0 0 240 1 13700 limit/base	13 1 0 <1 1 7 441 55 5907 current	21 0 <1 <1 0 <1 422 5 6256 history1 <1	23 0 0 0 <1 4 451 14 5959 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	55 0 0 0 0 0 240 1 13700 limit/base	13 1 0 <1 1 7 441 55 5907 current 11 2	21 0 <1 <1 0 <1 422 5 6256 history1 <1	23 0 0 0 <1 4 451 14 5959 history2 <1 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	55 0 0 0 0 0 240 1 13700 limit/base >50	13 1 0 <1 1 7 441 55 5907 current 11 2 3	21 0 <1 <1 0 <1 422 5 6256 history1 <1 <1	23 0 0 0 <1 4 451 14 5959 history2 <1 0 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	55 0 0 0 0 0 240 1 13700 limit/base >50 	13 1 0 <1 1 7 441 55 5907 current 11 2 3 current	21 0 <1 <1 0 <1 422 5 6256 history1 <1 0 history1	23 0 0 0 <1 4 451 14 5959 history2 <1 0 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m	55 0 0 0 0 0 240 1 13700 limit/base >50 limit/base	13 1 0 <1 1 7 441 55 5907 current 11 2 3 current 83602	21 0 <1 <1 0 <1 422 5 6256 history1 <1 0 history1 ▲ 26896	23 0 0 0 0 <1 4 451 14 5959 history2 <1 0 <1 history2 26318
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m	55 0 0 0 0 0 240 1 13700 limit/base >50 >20 limit/base >10000 >2500	13 1 0 <1 1 7 441 55 5907 current 11 2 3 current 83602 16018	21 0 <1 <1 0 <1 422 5 6256 history1 <1 <1 0 history1 ▲ 26896 ■ 3996	23 0 0 0 <1 4 451 14 5959 history2 <1 0 <1 history2 ▲ 26318 3677
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D7647 ASTM D7647	55 0 0 0 0 0 240 1 13700 limit/base >50 >20 limit/base >10000 >2500 >320	13 1 0 <1 1 7 441 55 5907 current 11 2 3 current A 83602 A 16018 A 368	21 0 <1 <1 0 <1 422 5 6256 history1 <1 <1 0 history1 △ 26896 ○ 3996 103	23 0 0 0 0 <1 4 451 14 5959 history2 <1 0 <1 history2 △ 26318 ○ 3677 258
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	55 0 0 0 0 0 240 1 13700 limit/base >50 >20 limit/base >10000 >2500 >320 >80	13 1 0 <1 1 7 441 55 5907 current 11 2 3 current A 83602 A 16018 A 368 78	21 0 <1 <1 0 <1 422 5 6256 history1 <1 <1 0 history1 ▲ 26896 3996 103 18	23 0 0 0 0 <1 4 451 14 5959 history2 <1 0 <1 history2 ▲ 26318 ■ 3677 258 87
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	55 0 0 0 0 0 240 1 13700 limit/base >50 >20 limit/base >10000 >2500 >320 >80 >20	13 1 0 <1 1 7 441 55 5907 current 11 2 3 current 83602 16018 368 78 7	21 0 <1 <1 0 <1 422 5 6256 history1 <1 <1 0 history1 26896 3996 103 18 1	23 0 0 0 0 <1 4 451 14 5959 history2 <1 0 <1 history2 26318 3677 258 87 3

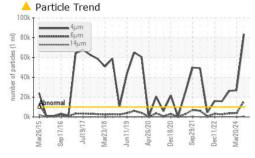
Acid Number (AN)

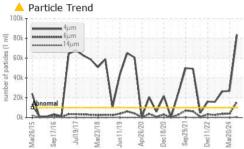
mg KOH/g ASTM D8045 0.4

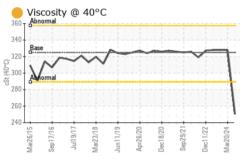
0.85 1.00 0.85 Contact/Location: RYAN LOWE - HORAUS

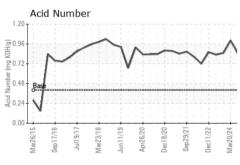


OIL ANALYSIS REPORT



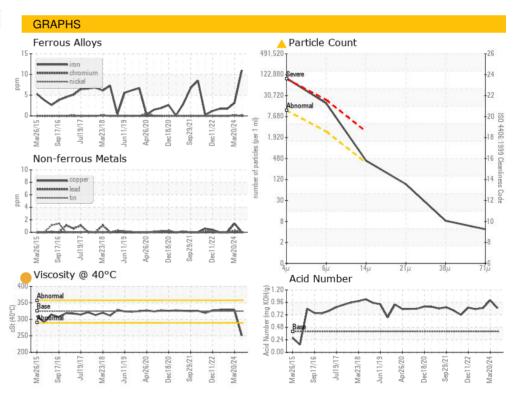






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	TES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	325	250.3	328	328
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SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
		200	100	The same of the sa	The same of the sa







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0930411 Lab Number : 06204543 Unique Number : 11072004

Received **Tested**

: 10 Jun 2024 : 17 Jun 2024

Diagnosed : 18 Jun 2024 - Jonathan Hester

Test Package : IND 2 (Additional Tests: PrtCount) Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

Bottom

* - 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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