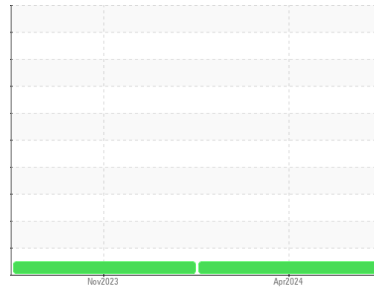




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
South Molding
 Machine Id
Press 9
 Component
9 Gearbox
 Fluid
PETRO CANADA (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Fluid Condition

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			SBP0007441	SBP0005198	---
Sample Date	Client Info			18 Apr 2024	10 Nov 2023	---
Machine Age	yrs	Client Info		17	17	---
Oil Age	yrs	Client Info		17	0	---
Oil Changed	Client Info			N/A	Not Changd	---
Sample Status				NORMAL	NORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		15	13	---
Iron	ppm	ASTM D5185m	>200	7	3	---
Chromium	ppm	ASTM D5185m	>15	<1	0	---
Nickel	ppm	ASTM D5185m	>15	<1	0	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m		<1	0	---
Aluminum	ppm	ASTM D5185m	>25	3	0	---
Lead	ppm	ASTM D5185m	>100	<1	0	---
Copper	ppm	ASTM D5185m	>200	<1	0	---
Tin	ppm	ASTM D5185m	>25	<1	<1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
Cadmium	ppm	ASTM D5185m		<1	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	42	71	69	---
Barium	ppm	ASTM D5185m	0.0	0	0	---
Molybdenum	ppm	ASTM D5185m	0.0	<1	0	---
Manganese	ppm	ASTM D5185m		<1	0	---
Magnesium	ppm	ASTM D5185m	235	<1	0	---
Calcium	ppm	ASTM D5185m	346	0	<1	---
Phosphorus	ppm	ASTM D5185m	309	247	266	---
Zinc	ppm	ASTM D5185m	364	0	0	---
Sulfur	ppm	ASTM D5185m	1370	7161	6741	---

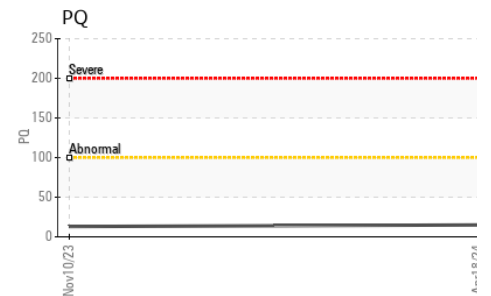
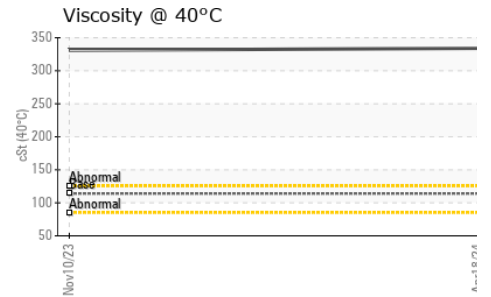
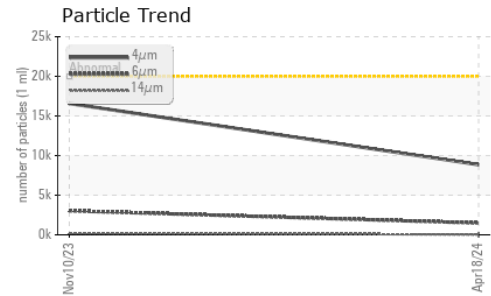
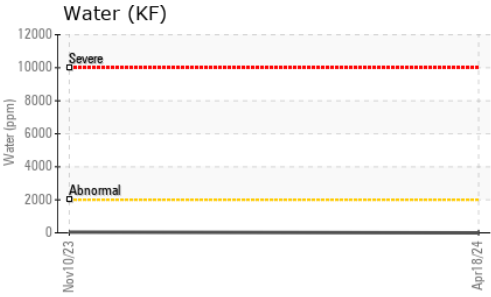
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	6	6	---
Sodium	ppm	ASTM D5185m		0	0	---
Potassium	ppm	ASTM D5185m	>20	2	0	---
Water	%	ASTM D6304	>0.2	0.00	0.004	---
ppm Water	ppm	ASTM D6304	>2000	0	45.9	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	8854	16572	---
Particles >6µm		ASTM D7647	>5000	1489	3026	---
Particles >14µm		ASTM D7647	>640	32	207	---
Particles >21µm		ASTM D7647	>160	3	60	---
Particles >38µm		ASTM D7647	>40	0	3	---
Particles >71µm		ASTM D7647	>10	0	0	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/18/12	21/19/15	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.50	0.40	---



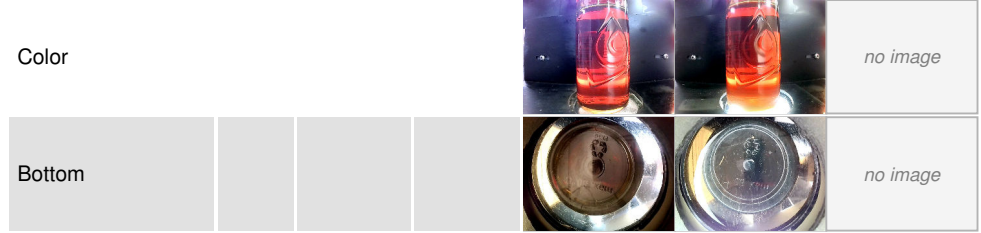
OIL ANALYSIS REPORT



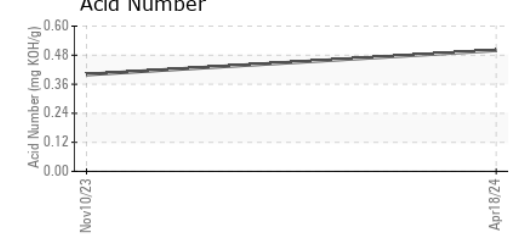
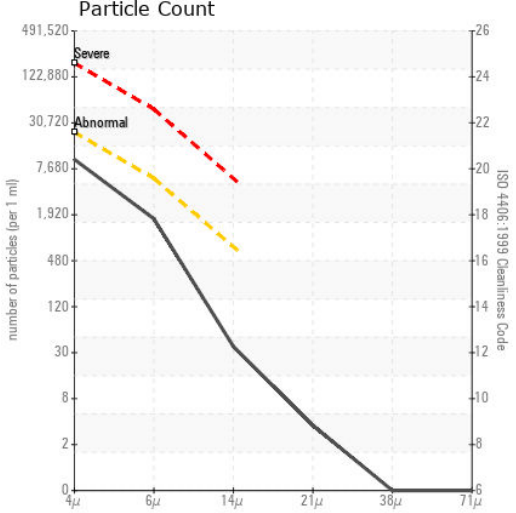
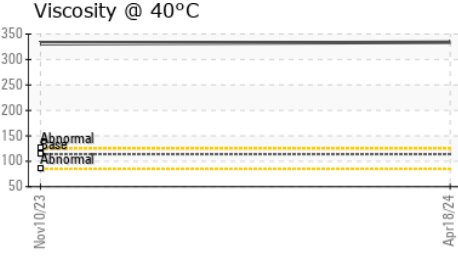
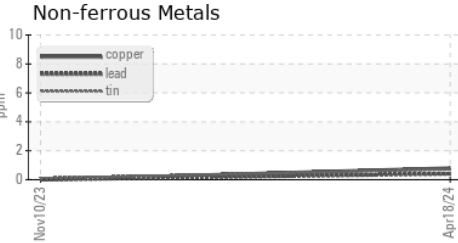
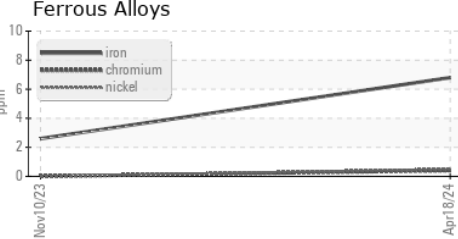
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 114	334	331	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP0007441
Lab Number : **06156974**
Unique Number : 10992397
Test Package : PLANT
Received : 22 Apr 2024
Tested : 23 Apr 2024
Diagnosed : 24 Apr 2024 - Angela Borella

BECTON DICKINSON BROKEN BOW
 150 S 1ST AVE
 BROKEN BOW, NE
 US 68822
 Contact: JUSTIN HURLBURT
 Justin_W_Hurlburt@bd.com

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)