

# **OIL ANALYSIS REPORT**

### Sample Rating Trend





Component

Compressor Fluid

PETRO CANADA TURBOFLO R&O 150 (--- GAL)

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

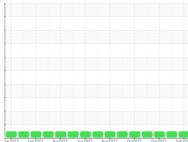
All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the component.

## Fluid Condition

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

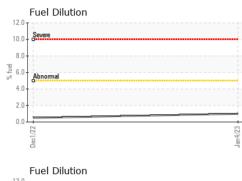




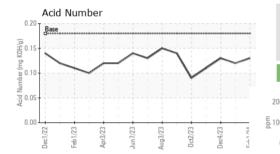
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0117158	PCA0112032	PCA0111947
Sample Date		Client Info		01 Feb 2024	04 Jan 2024	04 Dec 2023
Machine Age	hrs	Client Info		152139	151469	150732
Oil Age	hrs	Client Info		11579	10909	10172
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	<1
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m		<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	2	1
Lead	ppm	ASTM D5185m	>25	<1	0	<1
Copper	ppm	ASTM D5185m	>50	0	0	<1
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	11
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		2	1	0
Calcium	ppm	ASTM D5185m	0	5	2	2
Phosphorus	ppm	ASTM D5185m	4	7	31	29
Zinc	ppm	ASTM D5185m	0	0	0	0
Sulfur	ppm	ASTM D5185m		676	394	730
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	<1	<1
Sodium	ppm	ASTM D5185m		1	8	0
Potassium	ppm	ASTM D5185m	>20	1	2	1
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.18	0.13	0.12	0.13



# **OIL ANALYSIS REPORT**







White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water FLUID PROPE Visc @ 40°C SAMPLE IMAC Color Bottom GRAPHS Iron (ppm)	cSt	*Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual Metho	M M M M M M M M M M M M M M M M M M M	NONE NONE NONE NONE NONE NORML	NONE NONE NONE NONE NORML NORML NORML NEG NEG Current 143 Current	NONE         NONE         NONE         NONE         NONE         NORML         NORML         NORML         NEG         NEG         Ital         Istory1         Idage         Istory1		ONE ONE ONE ONE ONE ORML EG EG history2 history2 o image
Precipitate Silt Debris Sand/Dirt Appearance Ddor Emulsified Water Free Water FLUID PROPE Visc @ 40°C SAMPLE IMAC Color Bottom GRAPHS Iron (ppm) Severe Abnormal	scalar scalar scalar scalar scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual *Visual *Visual metho	N N N N > od 445 1	NONE NONE NONE NORML NORML >0.1 Imit/base 137.1 Imit/base	NONE NONE NORE NORML NORML NEG NEG Current 143 Current	NONE NONE NONE NORML NORML NEG NEG history1 143		ONE ONE ONE ORML ORML EG EG history2 42 history2
Silt Debris Sand/Dirt Appearance Ddor Emulsified Water Free Water FLUID PROPE Visc @ 40°C SAMPLE IMAC Color Bottom GRAPHS Iron (ppm)	scalar scalar scalar scalar scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual *Visual Metho	N N N > od 445 1	NONE NONE NORML NO	NONE NONE NORML NORML NEG Current 143 Current	NONE NONE NORML NORML NEG NEG history1 143		ONE ONE ORML ORML EG history2 42 history2
Debris Sand/Dirt Appearance Ddor Emulsified Water Free Water FLUID PROPE Visc @ 40°C SAMPLE IMAC Color Color Bottom GRAPHS Iron (ppm)	scalar scalar scalar scalar scalar scalar <b>RTIES</b> cSt	*Visual *Visual *Visual *Visual *Visual metho	N N N > od 445 1	NONE NORML NORML >0.1 limit/base 137.1 limit/base	NONE NORML NORML NEG Current 143 Current	NONE NORML NORML NEG NEG history1 143		ONE ORML ORML EG EG history2 42 history2
Sand/Dirt Appearance Ddor Emulsified Water Free Water FLUID PROPE Visc @ 40°C SAMPLE IMAC Color Bottom GRAPHS Iron (ppm)	scalar scalar scalar scalar scalar <b>RTIES</b> cSt	*Visual *Visual *Visual *Visual *Visual metho	N N > od 445 1	NONE NORML NORML >0.1 imit/base 137.1 limit/base	NONE NORML NORML NEG Current 143 current	NONE NORML NORML NEG NEG history1 143		ONE ORML ORML EG EG history2 42 history2
Appearance Odor Emulsified Water Free Water FLUID PROPE Visc @ 40°C SAMPLE IMAC Color Bottom GRAPHS Iron (ppm)	scalar scalar scalar scalar <b>RTIES</b> cSt	*Visual *Visual *Visual *Visual metho	N > od 445 1	NORML NORML >0.1 limit/base 137.1 limit/base	NORML NORML NEG NEG Current 143 Current	NORML NORML NEG NEG history1 143		ORML EG EG history2 42 history2
Color Co	scalar scalar scalar RTIES cSt	*Visual *Visual *Visual metho	N > 0d 445 1	NORML >0.1 limit/base 137.1 limit/base	NORML NEG NEG current 143 current	NORML NEG NEG history1 143		ORML EG EG history2 42 history2
Emulsified Water Free Water FLUID PROPE Visc @ 40°C SAMPLE IMAC Color Bottom GRAPHS Iron (ppm) Severe Abnormal	scalar scalar RTIES cSt	*Visual *Visual metho ASTM D	> 0d 445 1	>0.1 limit/base 137.1 limit/base	NEG NEG current 143 current	NEG NEG history1 143		EG EG history2 42 history2
Free Water FLUID PROPE Visc @ 40°C SAMPLE IMAC Color Bottom GRAPHS Iron (ppm) Severe Abnormal	scalar RTIES cSt	*Visual metho ASTM De	od 445 1	limit/base 137.1 limit/base	NEG current 143 current	NEG history1 143	NI 14	EG history2 42 history2 o image
FLUID PROPE Visc @ 40°C SAMPLE IMAC Color Bottom GRAPHS Iron (ppm)	RTIES cSt	metho ASTM D4	od 445 1	137.1 limit/base	current 143 current	history1 143	14 14	history2 42 history2 o image
Visc @ 40°C SAMPLE IMAC Color Bottom GRAPHS Iron (ppm)	cSt	ASTM D	445 1	137.1 limit/base	143 current	143	14 	42 history2 o image
SAMPLE IMAC Color Bottom GRAPHS Iron (ppm)				limit/base	current		no	history2 o image
Color Bottom GRAPHS Iron (ppm)	GES	metho	bd			history1	na	o image
Bottom GRAPHS Iron (ppm)				100	Lead (ppm)		<u> </u>	
GRAPHS Iron (ppm)				100	Lead (ppm)		) no	o image
Iron (ppm)				100	Lead (ppm)			
Abnormal				100	Lead (ppm)			
Abnormal				100				
Abitoima					Severe			
т					Abnormal			
				- 0				
Dec1/22 Feb1/23 Apr3/23	Jun7/23 Aug3/23	0ct2/23	Dec4/23	Feb1/24	Dec1/22 Feb1/23 Apr3/23	Jun7/23 Aug3/23	0ct2/23	Dec4/23
Aluminum (ppm)					Chromium (pp			
Severe				30	0			
Abnormal				10 E	Abnormal			
					3 3			m
Dec1/22 Feb1/23 Apr3/23	Jun7/23 Aug3/23	0ct2/23	Dec4/23	Feb1/24	Dec1/22 Feb1/23 Apr3/23	Jun7/23 Aug3/23	0ct2/23	Dec4/23
Copper (ppm)	, ,		_		Silicon (ppm)	, ,		_
				100				
				Ē. 50				
Abnormal					Abnormal			
c1/22 - b1/23 -	n7/23 - g3/23 -	:12/23	c4/23		c1/22 - b1/23 -	n7/23 -	:12/23	Dec4/23 -
	Jui Au	00	De			Jun	00	De
Abnormal		1		HOX 0.20	Base			
Base				<u>لے</u> 0.10			~	~
1			_	- NO 0.00	L			
ec1/22 b1/23 5r3/23	n7/23 g3/23	ct2/23	ec4/23	eb 1/24 Acid	ec1/22 b1/23 br3/23	n7/23 g3/23	ct2/23	Dec4/23
earCheck USA - 50 CA0117158 5092397 )885250	1 Madisc Rece Teste Diagr ests: Fue	on Ave., C ived ed nosed IDilution ) 300-237-1	Cary, N : 16 F : 20 F : 20 Fet ) 1 <i>369</i> .	NC 27513 Feb 2024 Feb 2024 Jonatl	ENERV	EST OPERATI 3613 Co	<b>ING - C</b> ONAW/ BIG F L	<b>ONAW</b> AY RO ROCK, Y JS 246
	Abnomal 27/1340 earCheck USA - 50 CA0117158 092397 885250 DB 2 ( Additional To	Abnomal Viscosity @ 40°C Abnomal Carcheck USA - 501 Madisc CA0117158 Rece 092397 Teste 885250 Diagr DB 2 ( Additional Tests: Fue tact Customer Service at 1-8	Abnomal Viscosity @ 40°C Abnomal Abnomal Abnomal CZI 21 22 22 22 22 22 22 20 0 CZI 20 0 C	Abnormal Viscosity @ 40°C Abnormal Carcheck USA - 501 Madison Ave., Cary, I CA0117158 Base Carcheck USA - 501 Madison Ave., Cary, I CA0117158 Base Carcheck USA - 501 Madison Ave., Cary, I CA0117158 Carcheck USA - 501 Madison Ave., Cary, I Carcheck USA - 501 Madiso	Abnomal EZI (additional Tests: FuelDilution ) tact Customer Service at 1-800-237-1369.	Abnormal CZ [1] and CZ [2] [2] [2] [2] [2] [2] [2] [2] [2] [2]	Abnormal Abnormal Abnormal Abnormal Action Number Action Numb	Abnormal Acid Number Acid Acid Number Acid Acid Number Acid Number Acid Number Acid Number Acid Number Acid Acid Number Acid Acid Num