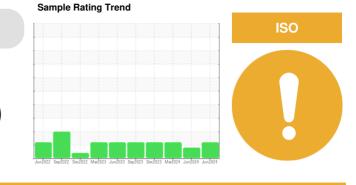


## **OIL ANALYSIS REPORT**

## Area PACKAGING [10-1514797] WEST VANDEBERG - VFD1-10A (S/N 87.7313153301.0001.16.50) Gearbox

## Fluid PETRO CANADA PURITY FG SYNTH EP GEAR 220 (--- GAL)

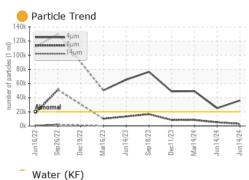


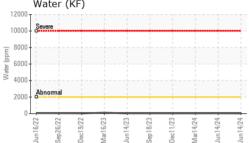
DIAGNOSIS	SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		USP0013118	USP0013119	USP0006275
Resample at the next service interval to monitor.	Sample Date		Client Info		14 Jun 2024	14 Jun 2024	14 Mar 2024
NOTE: one of two samples received with same ID.	Machine Age	hrs	Client Info		0	0	0
Wear	Oil Age	hrs	Client Info		0	0	0
All component wear rates are normal.	Oil Changed		Client Info		N/A	N/A	N/A
Contamination	Sample Status				ATTENTION	ATTENTION	ABNORMAL
There is a moderate amount of silt (particulates <	WEAR METALS		method	limit/base	current	history1	history2
4 microns in size) present in the oil.	Iron	ppm	ASTM D5185m	>200	2	71	<1
luid Condition	Chromium	ppm	ASTM D5185m		0	<1	0
he AN level is acceptable for this fluid. The only only on the oil is suitable for further service.	Nickel		ASTM D5185m		0	0	0
Shoulon of the on is suitable for further service.		ppm		>10			
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	0.5	0	0	0
	Aluminum	ppm	ASTM D5185m		0	<1	0
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		0	<1	0
	Tin	ppm	ASTM D5185m	>25	0	0	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m		0	0	0
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		0	0	0
	Manganese	ppm	ASTM D5185m		0	0	0
	Magnesium	ppm	ASTM D5185m		0	0	<1
	Calcium	ppm	ASTM D5185m		0	0	<1
	Phosphorus	ppm	ASTM D5185m		499	497	427
	Zinc	ppm	ASTM D5185m		3	5	0
	Sulfur		ASTM D5185m		1280	1000	1053
		ppm		limit/base			
	CONTAMINANTS		method	limit/base		history1	history2
	Silicon	ppm	ASTM D5185m	>50	3	3	2
	Sodium	ppm	ASTM D5185m	00	0	1	0
	Potassium	ppm	ASTM D5185m		0	0	<1
	Water	%	ASTM D6304		0.001	0.003	0.002
	ppm Water	ppm	ASTM D6304	>2000	2	31	20
	FLUID CLEANLI	NESS	method	limit/base		history1	history2
	Particles >4µm		ASTM D7647		<u> </u>	936184	<b>4</b> 9092
	Particles >6µm		ASTM D7647		<mark> </mark> 5161	3087	8523
	Particles >14µm		ASTM D7647	>640	42	36	96
	Particles >21µm		ASTM D7647	>160	4	8	10
	Particles >38µm		ASTM D7647	>40	1	1	0
	Particles >71µm		ASTM D7647	>10	0	0	0
	Oil Cleanliness		ISO 4406 (c)		<b>22/20/13</b>	22/19/12	▲ 23/20/14
	FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.59	0.55	0.38	0.55

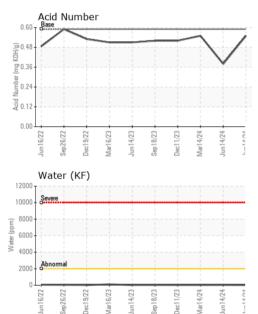
Contact/Location: KURT CONRADT - TYSWAV Page 1 of 2

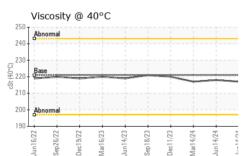


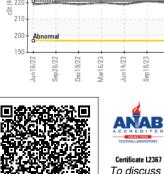
## **OIL ANALYSIS REPORT**











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2	Laboratory
NAB	Sample No
REDITED	Lab Numbe
SONC 17025 NG LABORATORY	Unique Numb
ficate L2367	Test Packag

о. ber ıber age : IND 2 Received Tested Diagnosed

Contact: KURT CONRADT kconradt@smartchicken.com T: (402)786-1072

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)

Report Id: TYSWAV [WUSCAR] 06218256 (Generated: 06/25/2024 18:05:06) Rev: 1

Contact/Location: KURT CONRADT - TYSWAV

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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	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	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	221	217	218	217
SAMPLE IMAGES	;	method	limit/base	current	history1	history2
Color						
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Bottom						

