

OIL ANALYSIS REPORT

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

Fluid

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



ISO

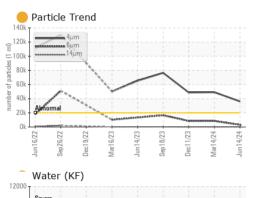
Sample Rating Trend

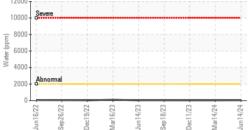
DIAGNOOIS			methou	iiiiii/base	Current	Thistory I	Thistoryz
Recommendation	Sample Number		Client Info		USP0013119	USP0006275	USP0004376
Resample at the next service interval to monitor.	Sample Date		Client Info		14 Jun 2024	14 Mar 2024	11 Dec 2023
IOTE: one of two samples received with same ID.	Machine Age	hrs	Client Info		0	0	0
Vear	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	ABNORMAL	ABNORMAL
There is a moderate amount of silt (particulates < 6 nicrons in size) present in the oil.	WEAR METALS		method	limit/base	current	history1	history2
Fluid Condition The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Iron	ppm	ASTM D5185m	>200	71	<1	2
	Chromium	ppm	ASTM D5185m	>15	<1	0	0
	Nickel	ppm	ASTM D5185m	>15	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>25	<1	0	0
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		<1	0	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		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	<1	0
	Calcium	ppm	ASTM D5185m		0	<1	<1
	Phosphorus	ppm	ASTM D5185m		497	427	441
	Zinc	ppm	ASTM D5185m		5	0	0
	Sulfur	ppm	ASTM D5185m	1	1000	1053	1032
	CONTAMINANTS		method ASTM D5185m	limit/base	current	history1 2	history2 2
	Sodium	ppm	ASTM D5185m	>00	1	0	0
	Potassium	ppm	ASTM D5185m	>20	0	<1	<1
	Water	ppm %	ASTM D5185III ASTM D6304		0.003	0.002	0.002
	ppm Water	ppm	ASTM D6304		31	20	23
	FLUID CLEANLI	NESS	method	limit/base	current	history1	history2
	Particles >4µm		ASTM D7647		<mark>)</mark> 36184	49092	48686
	Particles >6µm		ASTM D7647		3087	8523	8496
	Particles >14µm		ASTM D7647		36	96	108
	Particles >21µm		ASTM D7647		8	10	12
	Particles >38µm		ASTM D7647		1	0	1
	Particles >71µm		ASTM D7647		0	0	0
	Oil Cleanliness		ISO 4406 (c)		22/19/12	▲ 23/20/14	▲ 23/20/14
	FLUID DEGRAD		method	limit/base		history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.59	0.38	0.55	0.52

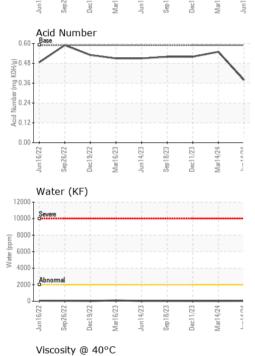
Contact/Location: KURT CONRADT - TYSWAV Page 1 of 2

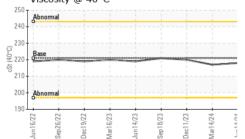


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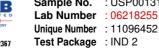








Laboratory Sample No. Certificate 12367



Test Package : IND 2 To discuss this sample report, contact Customer Service at 1-800-237-1369.

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* - 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] 06218255 (Generated: 06/25/2024 18:04:54) Rev: 2

Contact/Location: KURT CONRADT - TYSWAV

E:

T: (402)786-1072

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	218	217	220
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color				•		•
Bottom						\bigcirc

