

OIL ANALYSIS REPORT

Area DS-102 B73068 - PUMP VACUUM PUMP BUSCH RA 0100 ZIPPER MULTIVAC Vacuum Pump Fluid

PETRO CANADA PURITY FG SYNTHETIC 100 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

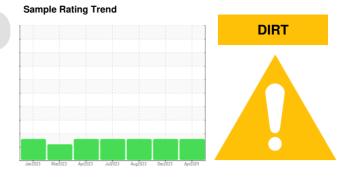
All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of dirt/seal material. The amount and size of particulates present in the system are acceptable.

Fluid Condition

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



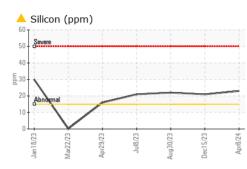
SAMPLE INFORMA	TION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0907981	WC0872426	WC0826125
Sample Date		Client Info		08 Apr 2024	15 Dec 2023	30 Aug 2023
Machine Age	nrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
ron	opm	ASTM D5185m	>20	1	0	<1
Chromium	opm	ASTM D5185m	>20	0	0	0
Nickel	opm	ASTM D5185m	>20	0	0	0
	opm	ASTM D5185m		0	0	0
	opm	ASTM D5185m		0	0	0
	opm	ASTM D5185m	>20	<1	<1	2
	opm	ASTM D5185m	>20	0	0	0
	opm	ASTM D5185m	>20	0	0	0
	opm	ASTM D5185m	>20	<1	0	0
	opm	ASTM D5185m	20	<1	<1	0
	opm	ASTM D5185m		0	0	0
	opin				-	
ADDITIVES		method	limit/base	current	history1	history2
Boron	opm	ASTM D5185m		0	0	0
Barium	opm	ASTM D5185m		0	0	0
Volybdenum	opm	ASTM D5185m		0	0	0
Vanganese	opm	ASTM D5185m		<1	0	0
Magnesium I	opm	ASTM D5185m		2	0	3
Calcium	opm	ASTM D5185m		8	3	0
Phosphorus	opm	ASTM D5185m		430	408	443
Zinc	opm	ASTM D5185m		0	3	0
Sulfur	opm	ASTM D5185m		1480	1091	1401
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	opm	ASTM D5185m	>15	A 23	1 21	A 22
Sodium	opm	ASTM D5185m		5	6	4
	opm	ASTM D5185m	>20	0	0	1
FLUID CLEANLINE	SS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	9500	1671	1530
Particles >6µm		ASTM D7647	>2500	1249	329	438
Particles >14μm		ASTM D7647	>320	39	27	37
Particles >21µm		ASTM D7647	>80	8	10	12
Particles >38µm		ASTM D7647	>20	0	2	3
Particles >71µm		ASTM D7647		0	1	2
Oil Cleanliness		ISO 4406 (c)	>20/18/15	20/17/12	18/16/12	18/16/12
FLUID DEGRADAT	ION	method	limit/base	current	history1	history2
		mothod	- mine bubb	Garrone	motory	motoryz
Acid Number (AN)	ng KOH/g	ASTM D8045	0 E	0.066	0.09	0.054

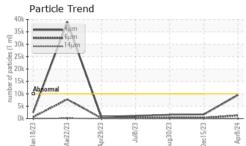
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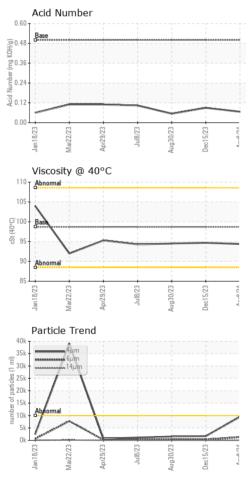
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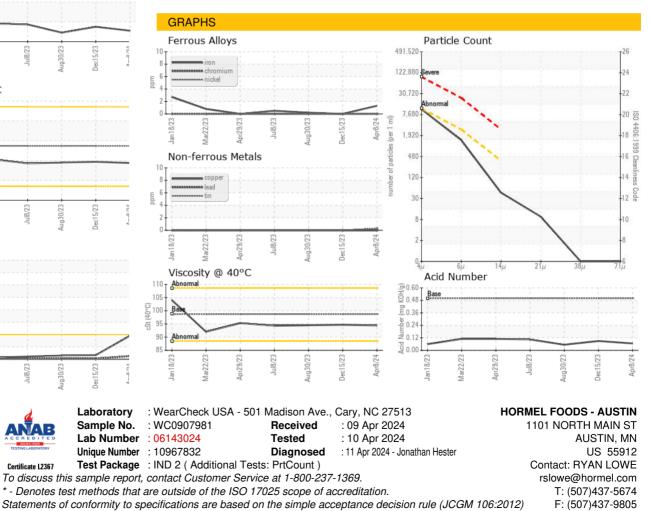
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	>.1	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	98.7	94.4	94.7	94.5
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color						
Bottom				a.		



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