

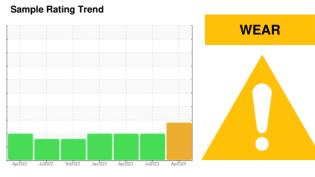
OIL ANALYSIS REPORT

HYDRAULIC

B70042 - HYDRAULIC PUMP - MARLEN 2

Hydraulic Power Pack

PETRO CANADA PURITY FG HYDRAULIC AW 68 (60 GAL)



DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

The copper level is abnormal. All other component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

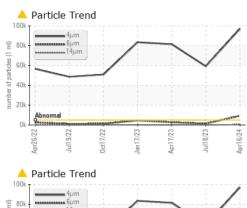
Fluid Condition

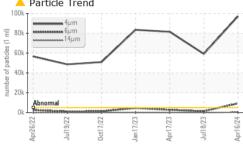
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

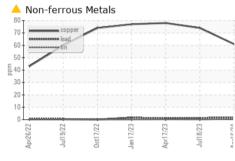
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0872487	WC0814166	WC0755365
Sample Date		Client Info		16 Apr 2024	18 Jul 2023	17 Apr 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed	0	Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION	I	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	17	11	11
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>20	1	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	0	0
Lead	ppm	ASTM D5185m	>20	2	1	1
Copper	ppm	ASTM D5185m	>20	<u>^</u> 61	<u>^</u> 74	<u>^</u> 78
Tin	ppm	ASTM D5185m	>20	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	2	0
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		3	3	3
Calcium	ppm	ASTM D5185m		9	11	11
Phosphorus	ppm	ASTM D5185m		395	421	419
Zinc	ppm	ASTM D5185m		67	67	70
Sulfur	ppm	ASTM D5185m		512	531	550
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	3	3	3
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	2	0	<1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u> </u>	▲ 59224	▲ 81475
Particles >6µm		ASTM D7647	>1300	<u> </u>	1329	<u>^</u> 2724
Particles >14µm		ASTM D7647	>160	▲ 381	13	19
Particles >21μm		ASTM D7647	>40	<u>^</u> 87	4	6
Particles >38μm		ASTM D7647	>10	3	0	0
Particles >71μm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>4</u> 24/20/16	<u>\$\text{\Delta}\$ 23/18/11</u>	<u>4</u> 24/19/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

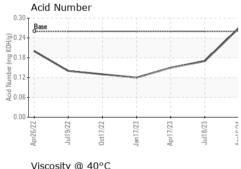


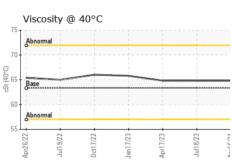
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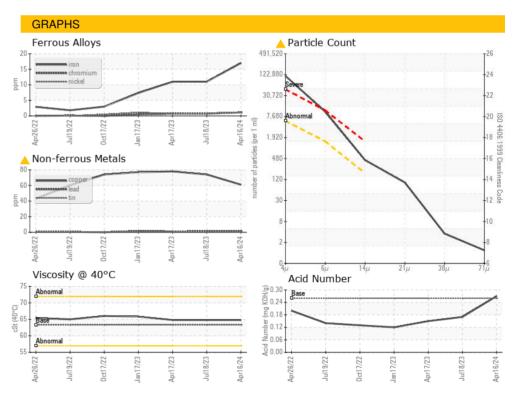








VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	63.34	64.8	64.8	64.8
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						







Laboratory Sample No.

Lab Number : 06157645 Unique Number : 10993068

: WC0872487

Bottom

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 Apr 2024 **Tested** : 24 Apr 2024

Diagnosed : 25 Apr 2024 - Don Baldridge

Test Package : IND 2 Certificate 12367 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) **PAPILLION FOODS** 10808 S 132ND ST

OMAHA, NE US 68138 Contact: NEIL ARIANO

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