

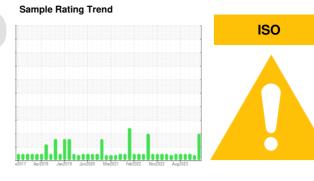
OIL ANALYSIS REPORT

MP-131 [10024124877]

B34611 - CHALLENGE TUMBLER #2 HYDRAULIC UNIT (S/N K-02-47-19850)

Hydraulic System

PETRO CANADA PURITY FG AW HYDRAULIC 46 (30 GAL)



DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

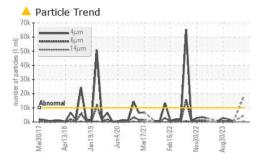
Fluid Condition

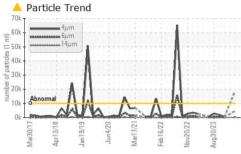
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

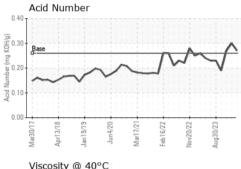
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0907952	WC0894880	WC0872500
Sample Date		Client Info		04 Apr 2024	15 Feb 2024	19 Dec 2023
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINATIO	V	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	0	0	0
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	0	0	<1
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m	<i>></i> 20	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ррпп		1111-/1			
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	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		443	468	490
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		501	590	590
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	6	2
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	18261		461
Particles >6µm		ASTM D7647	>1300	4662		122
Particles >14µm		ASTM D7647	>160	▲ 328		11
Particles >21µm		ASTM D7647	>40	9 79		4
Particles >38µm		ASTM D7647	>10	2		0
Particles >71µm		ASTM D7647	>3	0		0
Oil Cleanliness		ISO 4406 (c)	>20/17/14	2 1/19/16		16/14/11
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2

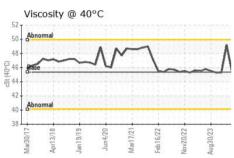


OIL ANALYSIS REPORT



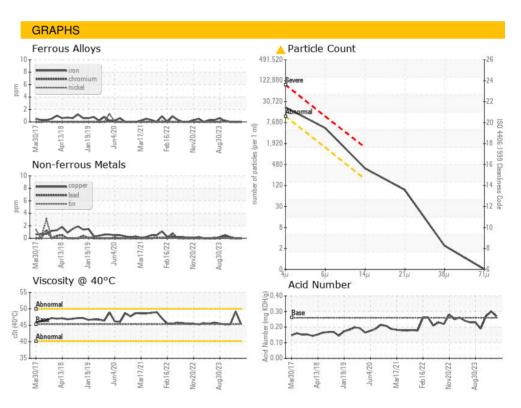






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	▲ MODER	LIGHT
Sand/Dirt	scalar	*Visual	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	45.36	45.5	49.2	45.3
SAMPLE IMAGES		method	limit/base	current	history1	history2









Laboratory Sample No.

Test Package : IND 2

: WC0907952 Lab Number : 06144192 Unique Number : 10969000

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 10 Apr 2024

Tested : 11 Apr 2024 Diagnosed : 11 Apr 2024 - Wes Davis

1101 NORTH MAIN ST AUSTIN, MN US 55912

HORMEL FOODS - AUSTIN

Contact: RYAN LOWE rslowe@hormel.com T: (507)437-5674 F: (507)437-9805

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)

Report Id: HORAUS [WUSCAR] 06144192 (Generated: 04/11/2024 10:38:04) Rev: 1

Contact/Location: RYAN LOWE - HORAUS