

## **OIL ANALYSIS REPORT**

## Area MP-131 **B28555 - CHALLENGE TUMBLER #3 HYDRAULIC PUMP**

Hydraulic System

## PETRO CANADA PURITY FG AW HYDRAULIC 46 (--- GAL)



ISO

DIAGNOSIS	SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		WC0907956	WC0894882	WC0872495
We recommend you service the filters on this	Sample Date		Client Info		04 Apr 2024	13 Feb 2024	27 Dec 2023
component. Resample at the next service interval to	Machine Age	hrs	Client Info		0	0	0
monitor. NOTE: Please provide information	Oil Age	hrs	Client Info		0	0	0
regarding reservoir capacity, filter type and micron rating with next sample.	Oil Changed		Client Info		N/A	N/A	Not Changd
	Sample Status				ATTENTION	NORMAL	NORMAL
Wear All component wear rates are normal.	CONTAMINATION	N	method	limit/base		history1	history2
Contamination There is a light amount of silt (particulates < 14	Water		WC Method		NEG	NEG	NEG
microns in size) present in the oil.	WEAR METALS		method	limit/base		history1	history2
Fluid Condition	Iron	ppm	ASTM D5185m		0	0	0
The AN level is acceptable for this fluid. The	Chromium	ppm	ASTM D5185m	>20	0	0	<1
condition of the oil is suitable for further service.	Nickel	ppm	ASTM D5185m	>20	0	<1	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>20	0	0	2
	Lead	ppm	ASTM D5185m	>20	0	0	0
	Copper	ppm	ASTM D5185m	>20	2	2	4
	Tin	ppm	ASTM D5185m	>20	0	<1	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		<1	0	<1
	Phosphorus	ppm	ASTM D5185m		420	415	458
	Zinc	ppm	ASTM D5185m		2	1	0
	Sulfur	ppm	ASTM D5185m		499	460	472
	CONTAMINANTS		method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>15	4	3	3
	Sodium	ppm	ASTM D5185m		0	<1	0
	Potassium	ppm	ASTM D5185m	>20	0	<1	<1
	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
	Particles >4µm		ASTM D7647	>10000	4341	1720	1366
	Particles >6µm		ASTM D7647	>1300	1630	681	423
	Particles >14µm		ASTM D7647		9191	84	48
	Particles >21µm		ASTM D7647		46	20	15
	Particles >38µm		ASTM D7647		1	0	1
	Particles >71µm		ASTM D7647		0	0	0
	Oil Cleanliness		ISO 4406 (c)			18/17/14	18/16/13
	FLUID DEGRADA		method	limit/base	current	history1	history2
					0.28	0.26	0.22
		mak()µ/a		11.76	11.28	11.26	11:23

Acid Number (AN) mg KOH/g ASTM D8045 0.26

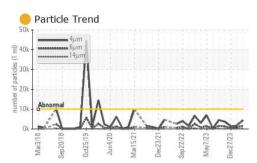
Report Id: HORAUS [WUSCAR] 06144185 (Generated: 04/11/2024 10:37:50) Rev: 1

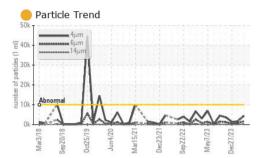
0.28 0.26 0.23 Contact/Location: RYAN LOWE - HORAUS Page 1 of 2

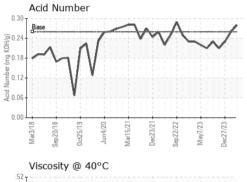
Sample Rating Trend

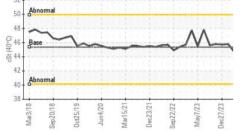


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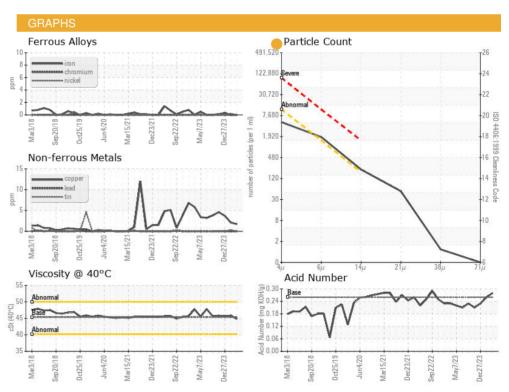








VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	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	45.36	44.8	45.8	45.7
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color						
Bottom				a.		



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **HORMEL FOODS - AUSTIN** Sample No. : WC0907956 Received : 10 Apr 2024 1101 NORTH MAIN ST Lab Number : 06144185 Tested : 11 Apr 2024 AUSTIN, MN Unique Number : 10968993 Diagnosed : 11 Apr 2024 - Wes Davis US 55912 Test Package : IND 2 Contact: RYAN LOWE Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. rslowe@hormel.com T: (507)437-5674 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. F: (507)437-9805

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Report Id: HORAUS [WUSCAR] 06144185 (Generated: 04/11/2024 10:37:50) Rev: 1

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