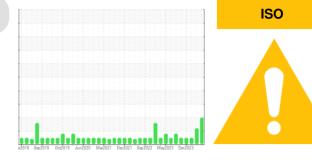


OIL ANALYSIS REPORT

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

Hydraulic System

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



Sample Rating Trend

DIAGNOSIS	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		WC0930452	WC0907956	WC0894882
Ve recommend you service the filters on this	Sample Date		Client Info		11 Jun 2024	04 Apr 2024	13 Feb 2024
omponent. Resample at the next service interval to	Machine Age	hrs	Client Info		0	0	0
onitor.	Oil Age	hrs	Client Info		0	0	0
ear	Oil Changed		Client Info		N/A	N/A	N/A
component wear rates are normal.	Sample Status				ABNORMAL	ATTENTION	NORMAL
Contamination There is a high amount of particulates present in the oil.	CONTAMINATIO	N	method	limit/base	current	history1	history2
	Water		WC Method	>0.05	NEG	NEG	NEG
Fluid Condition The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	WEAR METALS		method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>20	1	0	0
	Chromium	ppm	ASTM D5185m	>20	<1	0	0
	Nickel	ppm	ASTM D5185m	>20	<1	0	<1
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m	>20	2	0	0
	Lead	ppm	ASTM D5185m	>20	<1	0	0
	Copper	ppm	ASTM D5185m	>20	4	2	2
	Tin	ppm	ASTM D5185m	>20	<1	0	<1
	Vanadium	ppm	ASTM D5185m		0	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	0	0
	Molybdenum	ppm	ASTM D5185m		<1	0	0
	Manganese	ppm	ASTM D5185m		<1	0	0
	Magnesium	ppm	ASTM D5185m		<1	0	0
	Calcium	ppm	ASTM D5185m		0	<1	0
	Phosphorus	ppm	ASTM D5185m		387	420	415
	Zinc	ppm	ASTM D5185m		10	2	1
	Sulfur	ppm	ASTM D5185m		431	499	460
	CONTAMINANTS	5	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>15	5	4	3
	Sodium	ppm	ASTM D5185m		0	0	<1
	Potassium	ppm	ASTM D5185m		<1	0	<1
	FLUID CLEANLIN	NESS	method	limit/base		history1	history2
	Particles >4µm		ASTM D7647		A 18781	4341	1720
	Particles >6µm		ASTM D7647		5508	630	681
	Particles >14µm		ASTM D7647		<u> </u>	9191	84
	Particles >21µm		ASTM D7647		<u> </u>	46	20
	Particles >38µm		ASTM D7647		9	1	0
	Particles >71µm		ASTM D7647		1	0	0
	Oil Cleanliness		ISO 4406 (c)		1/20/16	9/18/15	18/17/14
	FLUID DEGRADA		method	limit/base	current	history1	history2
	Acid Number (AN)	ma KOU/a	ACTM DOD/E	0.26	0.00	0.20	0.26

Acid Number (AN)

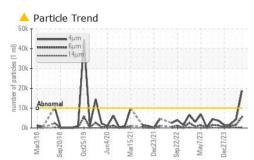
Report Id: HORAUS [WUSCAR] 06213420 (Generated: 06/21/2024 13:21:31) Rev: 1

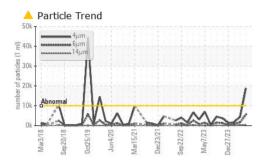
mg KOH/g ASTM D8045 0.26

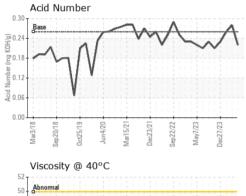
0.22 0.28 0.26 Contact/Location: RYAN LOWE - HORAUS Page 1 of 2

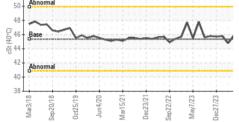


OIL ANALYSIS REPORT



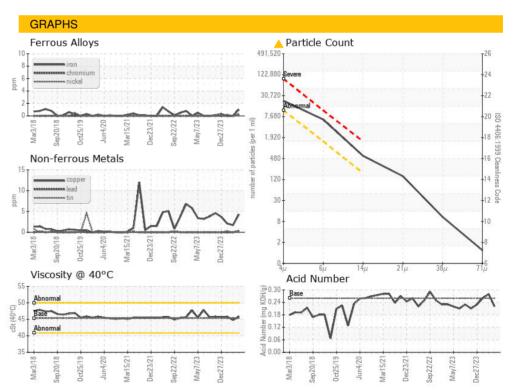






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45.36	45.8	44.8	45.8
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color				•		
D						

Bottom



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **HORMEL FOODS - AUSTIN** Sample No. : WC0930452 Received : 18 Jun 2024 1101 NORTH MAIN ST Lab Number : 06213420 Tested : 19 Jun 2024 AUSTIN, MN Unique Number : 11086284 Diagnosed : 20 Jun 2024 - Don Baldridge 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] 06213420 (Generated: 06/21/2024 13:21:31) Rev: 1

Contact/Location: RYAN LOWE - HORAUS

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