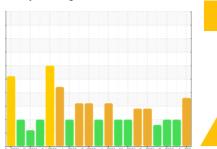


OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id **B66102 - KETTLE 10**

Gearbox

PETRO CANADA 220 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

An increase in the iron level is noted. All other component wear rates are normal.

Contamination

Appearance is hazy. There is a light concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

		fay2021 Oct202	21 Feb2022 Jun2022 Oct20	022	ec2023 Apr202	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0921285	WC0885419	WC0872437
Sample Date		Client Info		15 Apr 2024	20 Feb 2024	26 Dec 2023
Machine Age	hrs	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
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	165	25	13
Chromium	ppm	ASTM D5185m	>10	1	0	0
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	11	23	24
Lead	ppm	ASTM D5185m	>50	0	0	0
Copper	ppm	ASTM D5185m	>200	0	<1	0
Tin	ppm	ASTM D5185m	>10	0	0	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		2	<1	0
Magnesium	ppm	ASTM D5185m		0	3	0
Calcium	ppm	ASTM D5185m		<1	27	22
Phosphorus	ppm	ASTM D5185m		302	538	571
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		697	592	481
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	11	21	19
Sodium	ppm	ASTM D5185m		6	15	16
Potassium	ppm	ASTM D5185m	>20	0	2	<1
Water	%	ASTM D6304	>0.2	△ 0.327		
ppm Water	ppm	ASTM D6304	>2000	△ 3270		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647			243906	138477
Particles >6µm		ASTM D7647	>1300		△ 96307	▲ 40356
Particles >14µm		ASTM D7647	>160		<u>\$2548</u>	<u></u> 591
Particles >21µm		ASTM D7647	>40		△ 322	▲ 76
Particles >38μm		ASTM D7647	>10		1	1
Particles >71μm		ASTM D7647	>3		0	0
Oil Cleanliness		ISO 4406 (c)	>/17/14		<u>\$\text{\square}\$ 25/24/19</u>	4 24/23/16
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.51	0.41	0.37



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number : 06161424

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0921285

Received **Tested** Unique Number: 10996847 Diagnosed

: 30 Apr 2024 Test Package : IND 2 (Additional Tests: KF, PrtCount)

: 30 Apr 2024 - Don Baldridge

: 26 Apr 2024

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. US 61068

Contact: JAMES ROBINSON III jrobinson3@hormel.com

1001 South Main, P.O. Box 45

T: F: (815)562-4147

Rochelle Foods - PRE

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Report Id: ROCROCUS [WUSCAR] 06161424 (Generated: 05/04/2024 05:02:18) Rev: 1

Contact/Location: JAMES ROBINSON III - ROCROCUS

Rochelle, IL