

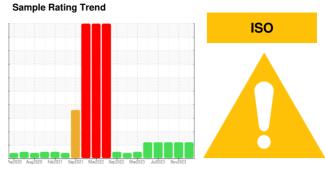
OIL ANALYSIS REPORT

GRIND ROOM [98763288]

KR-GR-002491 - INCLINE AUGER 8A (S/N GRIND A - 11513018)

Gearbox

PETRO CANADA 220 (17 QTS)



DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: 98763288)

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

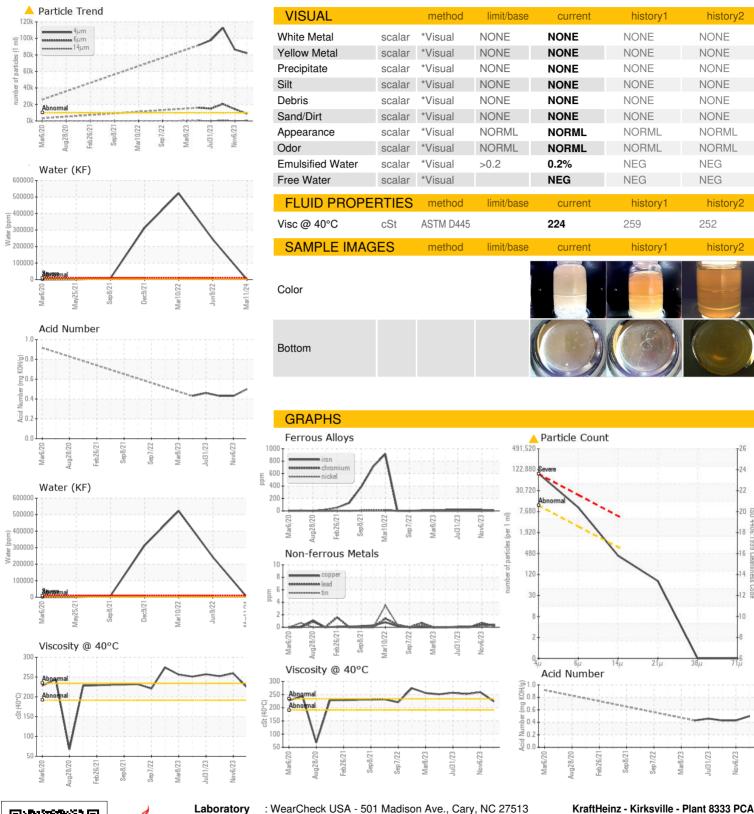
Fluid Condition

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

		far2020 Aug20	120 Feb 2021 Sep 2021 Ma	r2022 Sep2022 Mar2023 Jul2023	Nov2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0116076	PCA0110820	PCA0103746
Sample Date		Client Info		11 Mar 2024	06 Nov 2023	10 Aug 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 METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	7	16	16
Chromium	ppm	ASTM D5185m	>15	<1	0	0
Nickel	ppm	ASTM D5185m	>15	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	3	0	<1
Lead	ppm	ASTM D5185m	>100	<1	<1	0
Copper	ppm	ASTM D5185m	>200	<1	<1	<1
Tin	ppm	ASTM D5185m	>25	<1	0	0
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	<1
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m		<1	0	<1
Calcium	ppm	ASTM D5185m		4	18	17
Phosphorus	ppm	ASTM D5185m		447	401	394
Zinc	ppm	ASTM D5185m		3	0	21
Sulfur	ppm	ASTM D5185m		1509	2556	2228
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	3	2	3
Sodium	ppm	ASTM D5185m		0	2	0
Potassium	ppm	ASTM D5185m	>20	1	<1	<1
Water	%	ASTM D6304	>0.2	0.034		
ppm Water	ppm	ASTM D6304	>2000	340		
FLUID CLEAN	LINESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	A 81930	<u>▲</u> 86437	<u>▲</u> 112605
Particles >6µm		ASTM D7647	>2500	<u>A</u> 8811	<u> </u>	2 0564
Particles >14µm		ASTM D7647	>640	367	276	447
Particles >21µm		ASTM D7647	>160	69	54	69
Particles >38µm		ASTM D7647	>40	0	2	3
Particles >71µm		ASTM D7647	>10	0	0	1
Oil Cleanliness		ISO 4406 (c)	>20/18/16	24/20/16	<u>4</u> 24/21/15	<u>4</u> 24/22/16
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.50	0.43	0.43



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: PCA0116076 Lab Number : 06133265 Unique Number: 10952730

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received **Tested**

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

: 29 Mar 2024

: 05 Apr 2024 - Jonathan Hester

2504 INDUSTRIAL DR KIRKSVILLE, MO US 63501

Contact: WALLACE WARD wallace.ward@kraftheinzcompany.com

T: (660)627-1031 F: (660)627-5887

* - 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)

Submitted By: Wilberto Pacheco Garcia