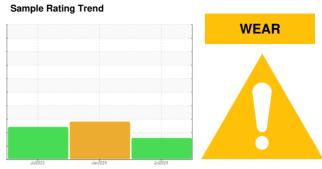


OIL ANALYSIS REPORT

PHASE 1 HTS **HT 01**

Agitator Gearbox

PETRO CANADA PURITY FG SYN GEAR ISO 220 (--- LTR)



DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

The copper level is abnormal. All other component wear rates are normal.

Contamination

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

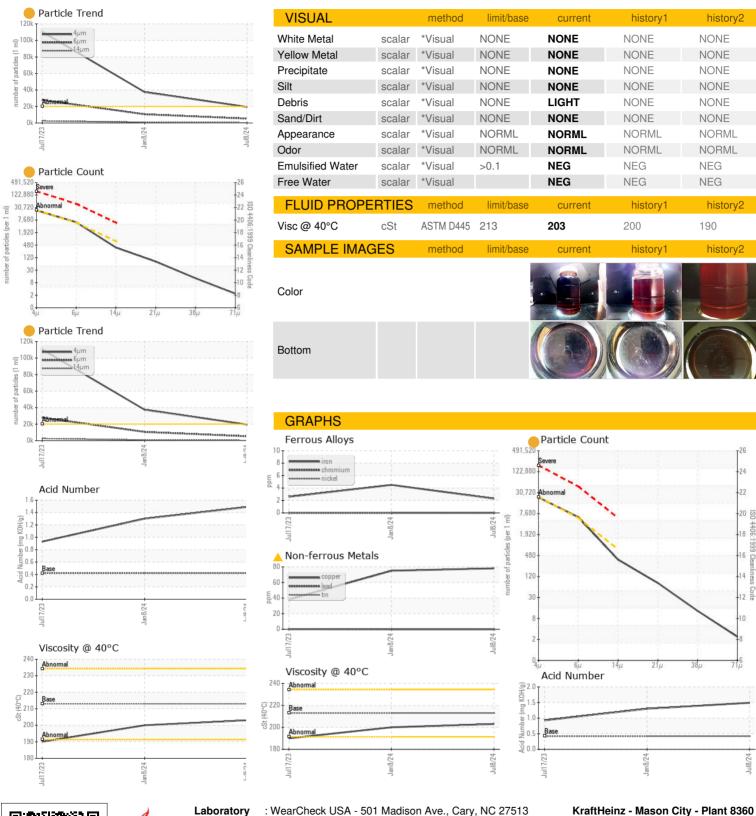
Fluid Condition

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

SO 220 (LTR)		Ju	zi023	Jan 2024 Jul 20:	4	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0124933	PCA0111044	USP244666
Sample Date		Client Info		08 Jul 2024	08 Jan 2024	17 Jul 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	2	4	3
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	0	2	0
Lead	ppm	ASTM D5185m	>100	0	0	<1
Copper	ppm	ASTM D5185m	>50	^ 78	<u>^</u> 75	38
Tin	ppm	ASTM D5185m	>10	0	<1	0
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		12	14	8
Barium	ppm	ASTM D5185m		0	0	1
Molybdenum	ppm	ASTM D5185m		0	<1	1
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		2	<1	<1
Calcium	ppm	ASTM D5185m		1	19	2
Phosphorus	ppm	ASTM D5185m		690	675	623
Zinc	ppm	ASTM D5185m		22	9	12
Sulfur	ppm	ASTM D5185m		9839	9756	9997
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	8	6	19
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	0	1	1
FLUID CLEAN	LINESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	19456	△ 37498	<u> </u>
Particles >6µm		ASTM D7647	>5000	5289	<u> 10514</u>	<u>▲</u> 27829
Particles >14μm		ASTM D7647	>640	322	▲ 777	<u>\$\times\$ 2550</u>
Particles >21μm		ASTM D7647	>160	69	<u>^</u> 203	<u>▲</u> 835
Particles >38μm		ASTM D7647	>40	11	4	△ 62
Particles >71μm		ASTM D7647	>10	2	0	6
Oil Cleanliness		ISO 4406 (c)	>21/19/16	21/20/16	<u>22/21/17</u>	<u>4</u> 24/22/19
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
A aid Number (ANI)	ma 1/011/a	ACTM DOOM	0.40	1 40	1 20	0.00



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number Unique Number : 11116741

: PCA0124933 : 06233248

Received **Tested** Diagnosed

: 11 Jul 2024 : 12 Jul 2024 : 12 Jul 2024 - Don Baldridge

1022 12TH ST MASON CITY, IA US 50401

Contact: Service Manager

Test Package : IND 2 (Additional Tests: PrtCount) 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)

F: (641)421-2936