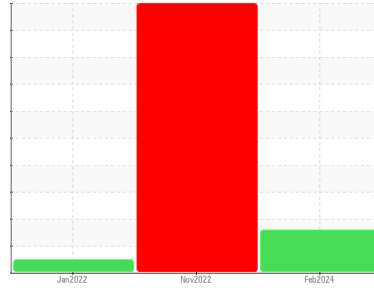


OIL ANALYSIS REPORT

Sample Rating Trend



Area
LINE 1
Machine Id
[LINE 1] LINE 1 TRAIN 1 PRIMARY LINE 1 TRAIN 1 PRIMARY
Component
Gearbox
Fluid
PETRO CANADA PURITY FG EP GEAR OIL 220 (--- GAL)

DIAGNOSIS

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

Wear
All component wear rates are normal.

Contamination
Elemental level of silicon (Si) above normal indicating ingress of seal material.

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

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0111082	PCA0077229	PCA0056244
Sample Date	Client Info	20 Feb 2024	25 Nov 2022	29 Jan 2022
Machine Age	hrs	0	0	4201
Oil Age	hrs	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	SEVERE	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184	15	▲ 663	17
Iron	ppm ASTM D5185m >200	2	▲ 678	1
Chromium	ppm ASTM D5185m >15	0	1	0
Nickel	ppm ASTM D5185m >15	0	<1	0
Titanium	ppm ASTM D5185m	0	<1	0
Silver	ppm ASTM D5185m	0	0	<1
Aluminum	ppm ASTM D5185m >25	5	2	0
Lead	ppm ASTM D5185m >100	0	<1	<1
Copper	ppm ASTM D5185m >200	6	2	2
Tin	ppm ASTM D5185m >25	0	<1	<1
Antimony	ppm ASTM D5185m >5	---	---	<1
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	<1	0
Manganese	ppm ASTM D5185m	0	5	0
Magnesium	ppm ASTM D5185m	0	1	0
Calcium	ppm ASTM D5185m	58	38	0
Phosphorus	ppm ASTM D5185m	262	491	393
Zinc	ppm ASTM D5185m	25	69	12
Sulfur	ppm ASTM D5185m	970	631	521

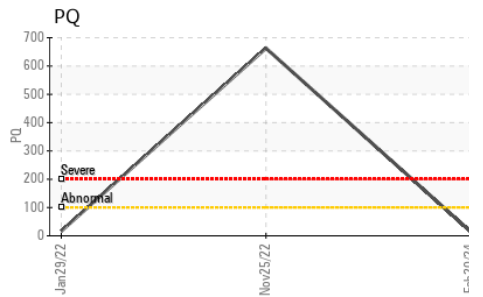
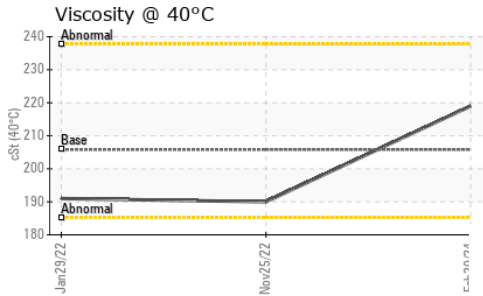
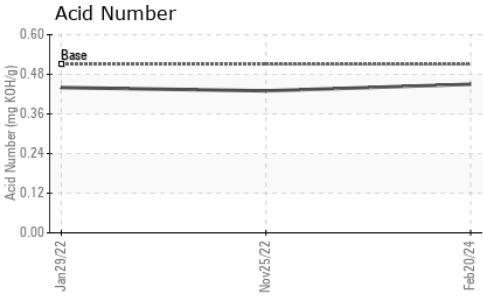
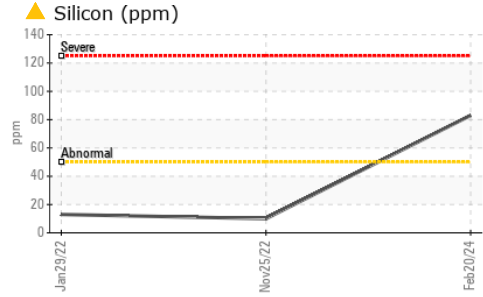
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >50	▲ 83	10	13
Sodium	ppm ASTM D5185m	0	16	0
Potassium	ppm ASTM D5185m >20	0	23	0

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045 0.51	0.45	0.43	0.44



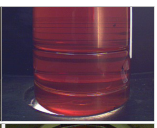
OIL ANALYSIS REPORT

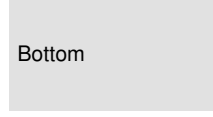
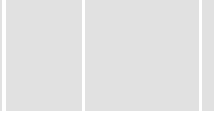
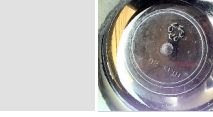


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	MODER	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	MILKY	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	0.2%
Free Water	scalar	*Visual		NEG	1.0

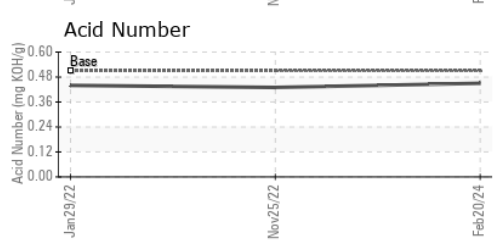
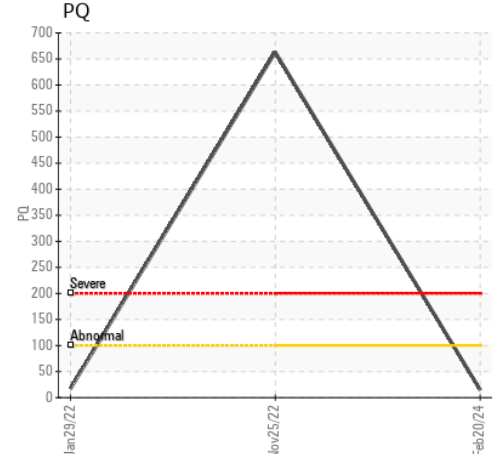
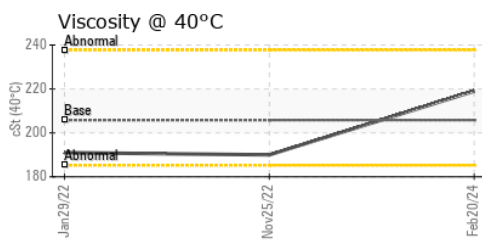
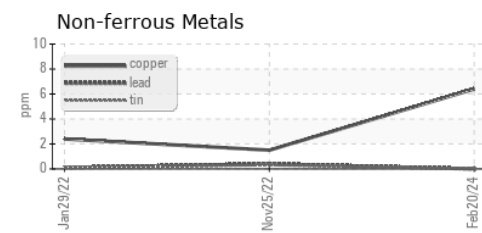
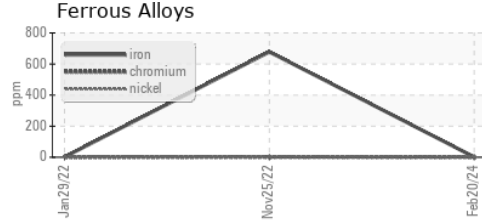
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	205.8	219	190

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0111082 **Received** : 27 Feb 2024
Lab Number : 06101839 **Tested** : 28 Feb 2024
Unique Number : 10900069 **Diagnosed** : 29 Feb 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: PQ)

THE HERSHEY COMPANY
 WEST HERSHEY - TECHNICAL ASSURANCE, 1033 OLDE WEST CHOCOLATE
 HERSHEY, PA
 US 17033
 Contact: CLINTON ZOHNER
 clintzohner@hersheys.com
 T: (717)374-4846
 F: (717)374-4594

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)