



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
PORT TRAWL CHAIN DRIVE

Component
Gearbox

Fluid
PETRO CANADA ENDURATEX EP 150 (160 LTR)

RECOMMENDATION

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

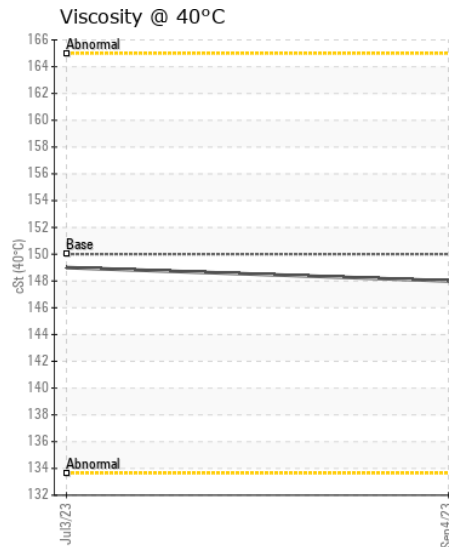
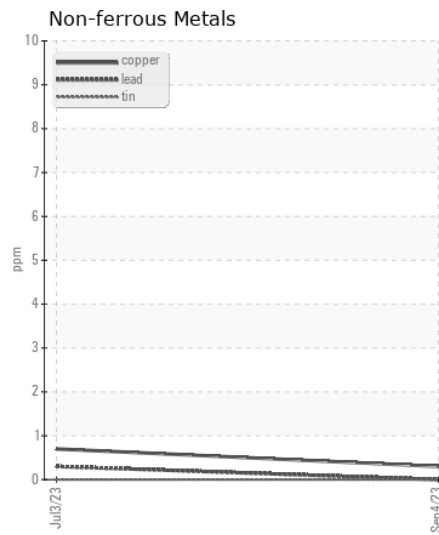
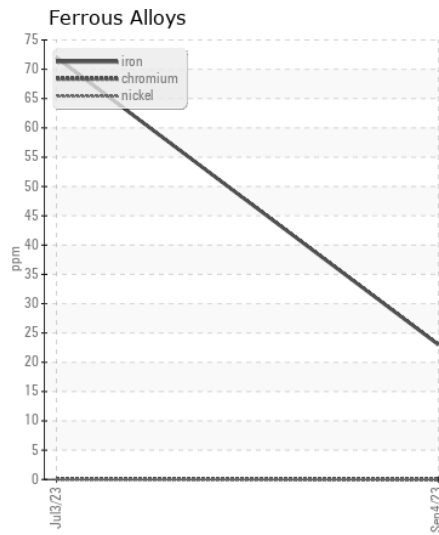
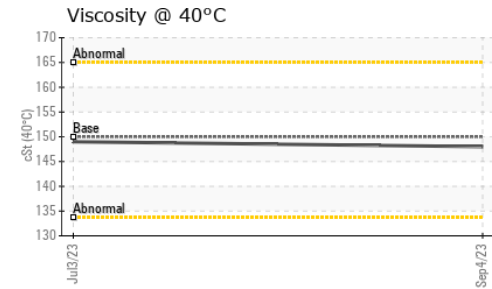
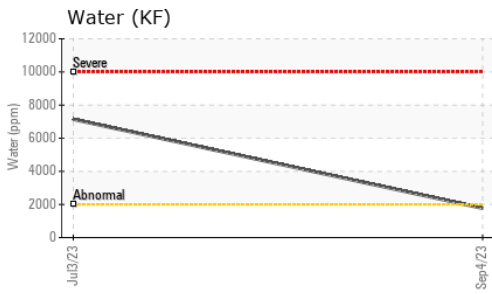
CONTAMINATION

Free water present.

FLUID CONDITION

The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0757626	WC0761453	---
Sample Date		Client Info		04 Sep 2023	03 Jul 2023	---
Machine Age	hrs	Client Info		0	0	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ABNORMAL	ABNORMAL	---
Iron	ppm	ASTM D5185(m)	>150	23	72	---
Chromium	ppm	ASTM D5185(m)	>10	0	<1	---
Nickel	ppm	ASTM D5185(m)	>10	0	0	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)		0	0	---
Aluminum	ppm	ASTM D5185(m)	>5	<1	<1	---
Lead	ppm	ASTM D5185(m)	>65	0	<1	---
Copper	ppm	ASTM D5185(m)	>80	<1	<1	---
Tin	ppm	ASTM D5185(m)	>8	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185(m)	>20	10	12	---
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	---
Water	%	ASTM D6304*	>0.2	0.176	▲ 0.713	---
ppm Water	ppm	ASTM D6304*	>2000	1767.7	▲ 7139.6	---
Silt	scalar	Visual*	NONE	VLITE	NONE	---
Debris	scalar	Visual*	NONE	VLITE	VLITE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	▲ WGOIL	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	.2%	▲ .2%	---
Sodium	ppm	ASTM D5185(m)		<1	2	---
Boron	ppm	ASTM D5185(m)	55	44	20	---
Barium	ppm	ASTM D5185(m)	0	0	<1	---
Molybdenum	ppm	ASTM D5185(m)	0	0	0	---
Manganese	ppm	ASTM D5185(m)	0	<1	2	---
Magnesium	ppm	ASTM D5185(m)	2	<1	1	---
Calcium	ppm	ASTM D5185(m)	6	5	13	---
Phosphorus	ppm	ASTM D5185(m)	250	294	291	---
Zinc	ppm	ASTM D5185(m)	3	5	8	---
Sulfur	ppm	ASTM D5185(m)	7500	6326	9687	---
Visc @ 40°C	cSt	ASTM D7279(m)	150.0	148	149	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0757626
Lab Number : **02581548**
Unique Number : 5642613
Test Package : MAR 5 (Additional Tests: ICP, KF, KV40, Spat, Visual)

Canadian Coast Guard - John Cabot
 280 Southside Road
 St. John's, NL
 CA A1E 0A3
 Contact: Chief Engineer
 johncabotce@ccgs-ngcc.gc.ca
 T: (709)730-4628
 F:

Received : 11 Sep 2023
 Tested : 12 Sep 2023
 Diagnosed : 13 Sep 2023 - Kevin Marson
 To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.