



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
4175 14TH AVENUE UNIT #2
 Component
2 Diesel Engine
 Fluid
PETRO CANADA XR 4 SAE 15W40 (24 LTR)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.
 Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0910625	WC0897578	WC0515876
Sample Date		Client Info		25 Mar 2024	23 Jan 2024	05 Jan 2021
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	---	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>51	2	2	2
Chromium	ppm	ASTM D5185(m)	>11	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>31	<1	<1	1
Lead	ppm	ASTM D5185(m)	>26	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>26	1	1	1
Tin	ppm	ASTM D5185(m)	>4	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

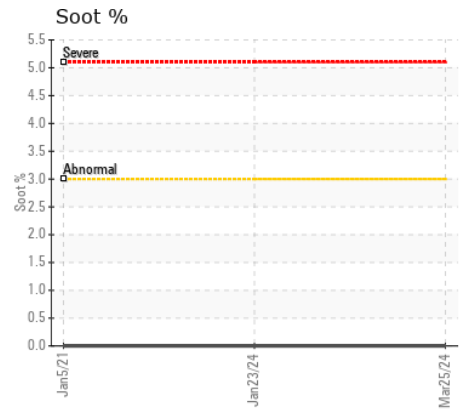
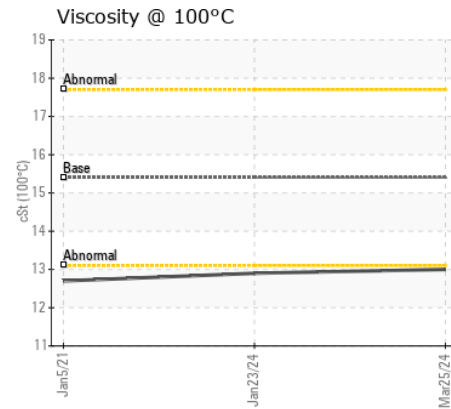
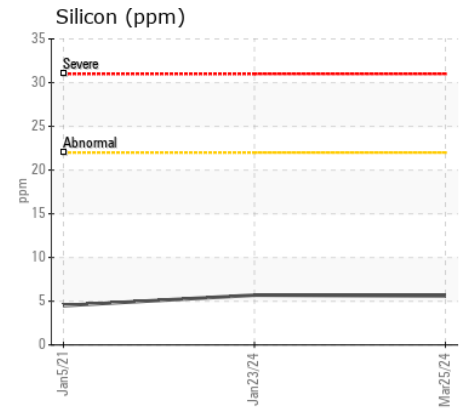
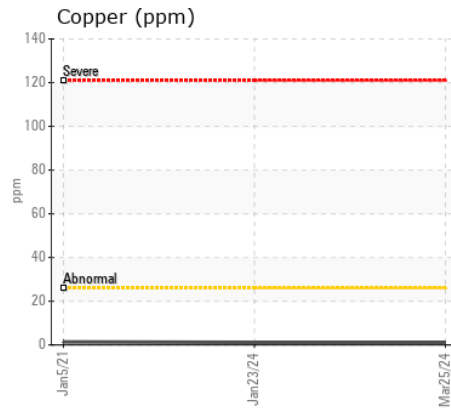
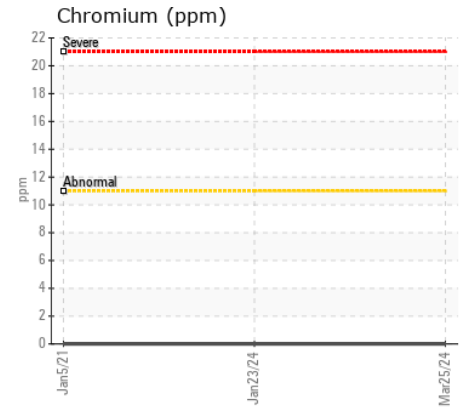
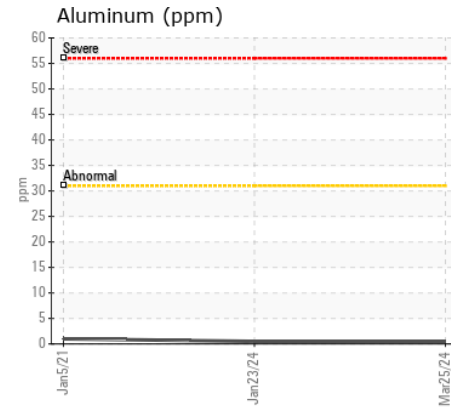
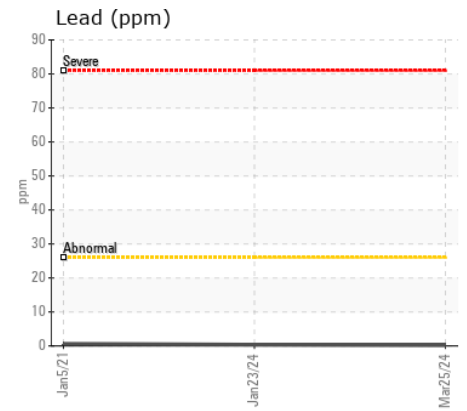
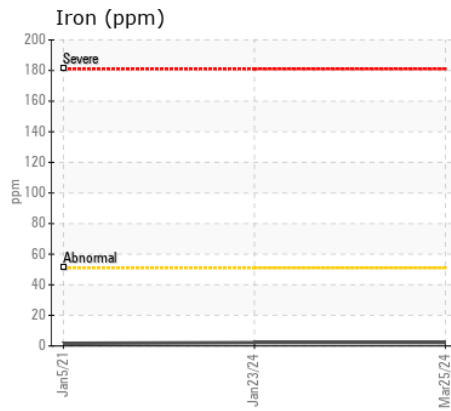
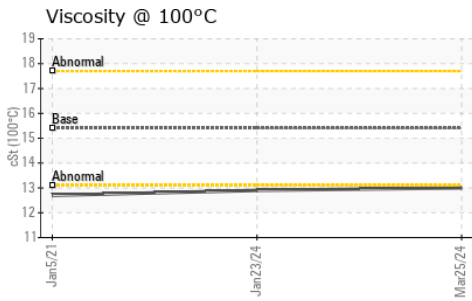
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	6	6	4
Potassium	ppm	ASTM D5185(m)	>20	0	0	<1
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	4.5	4.5	4.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.4	18.4	18.9
Emulsified Water	scalar	Visual*	>0.21	NEG	NEG	NEG

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil.
 The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>31	1	1	2
Boron	ppm	ASTM D5185(m)	1	41	41	54
Barium	ppm	ASTM D5185(m)	1	0	0	0
Molybdenum	ppm	ASTM D5185(m)	1	62	62	69
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)	10	928	930	953
Calcium	ppm	ASTM D5185(m)	3032	1066	1074	1116
Phosphorus	ppm	ASTM D5185(m)	1054	1017	1018	1023
Zinc	ppm	ASTM D5185(m)	1332	1166	1173	1238
Sulfur	ppm	ASTM D5185(m)	3985	2760	2778	2929
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.4	13.4	13.8
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.0	12.9	12.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0910625
Lab Number : 02625606
Unique Number : 5750725
Test Package : MOB 1

Received : 01 Apr 2024
Tested : 01 Apr 2024
Diagnosed : 01 Apr 2024 - Kevin Marson

NORTHERN GENERATOR CO. LTD.
 80 ASHBRIDGE CIRCLE., UNIT #1 & 2
 WOODBRIDGE, ON
 CA L4L 3R5
 Contact: Selome Afework
 selome@northerngenerator.com
 T: (905)264-9744
 F: (905)264-9714

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.