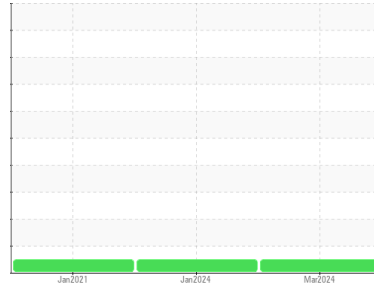




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



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

DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

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.

SAMPLE INFORMATION

method	limit/base	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
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >2.1	<1.0	1.1	<1.0
Water	WC Method >0.21	NEG	NEG	NEG
Glycol	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
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
Antimony	ppm ASTM D5185(m)	0	0	<1
Vanadium	ppm ASTM D5185(m)	0	0	0
Beryllium	ppm ASTM D5185(m)	0	0	0
Cadmium	ppm ASTM D5185(m)	0	0	<1

ADDITIVES

method	limit/base	current	history1	history2
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
Lithium	ppm ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

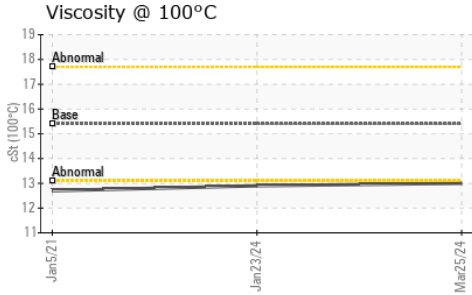
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >22	6	6	4
Sodium	ppm ASTM D5185(m) >31	1	1	2
Potassium	ppm ASTM D5185(m) >20	0	0	<1

INFRA-RED

method	limit/base	current	history1	history2
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



OIL ANALYSIS REPORT

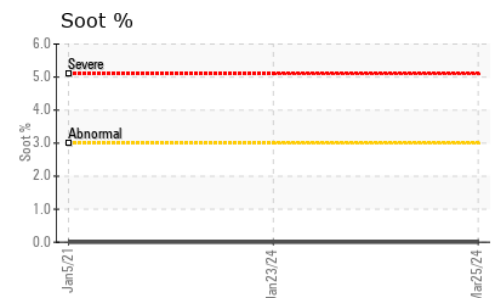
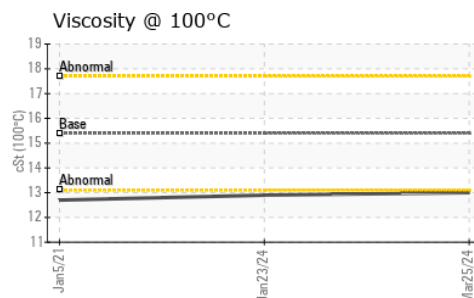
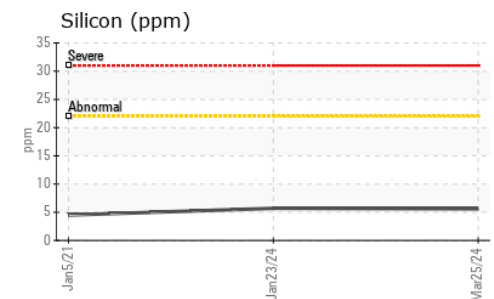
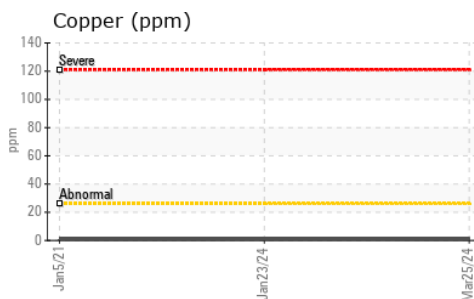
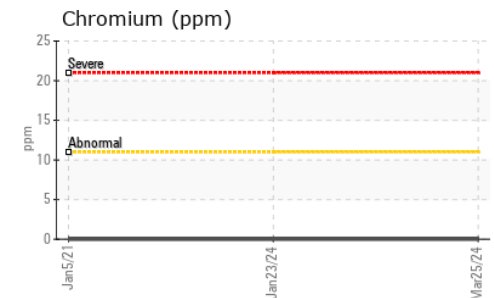
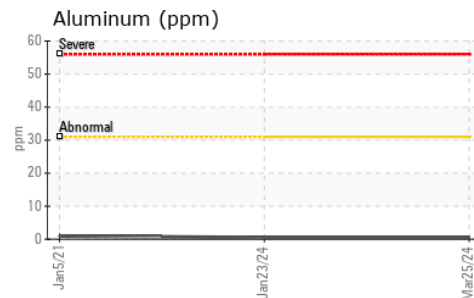
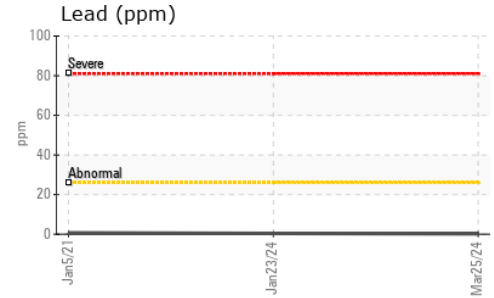
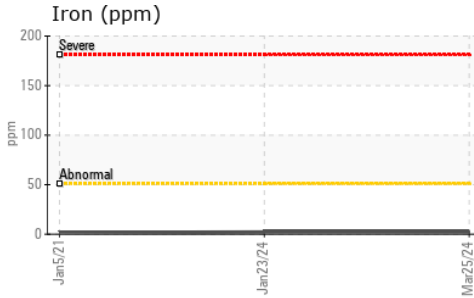


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	13.4	13.4	13.8

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.21	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.0	12.9	12.7

GRAPHS



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

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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.