MOB WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
18-22 ST THOMAS
Component
Diesel Engine
Fluid
PETRO CANADA XR 4 SAE 15W40 (--- LTR)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

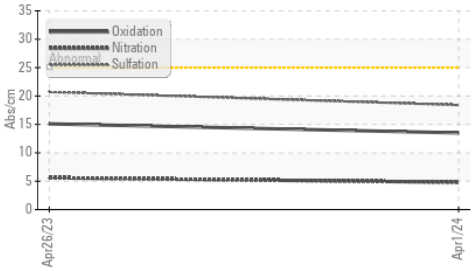
There is no indication of any contamination in the oil.

FLUID CONDITION

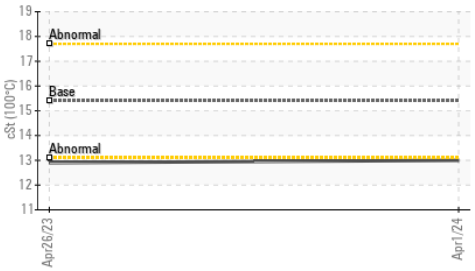
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0910641	WC0810832	---
Sample Date		Client Info		01 Apr 2024	26 Apr 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		N/A	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				NORMAL	MARGINAL	---
Iron	ppm	ASTM D5185(m)	>100	6	8	---
Chromium	ppm	ASTM D5185(m)	>20	0	<1	---
Nickel	ppm	ASTM D5185(m)	>4	0	0	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>3	0	0	---
Aluminum	ppm	ASTM D5185(m)	>20	<1	1	---
Lead	ppm	ASTM D5185(m)	>40	<1	2	---
Copper	ppm	ASTM D5185(m)	>330	3	7	---
Tin	ppm	ASTM D5185(m)	>15	3	9	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
Silicon	ppm	ASTM D5185(m)	>25	5	7	---
Potassium	ppm	ASTM D5185(m)	>20	1	6	---
Fuel		WC Method	>5	<1.0	▲ 2.9	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	0.0	---
Soot %	%	ASTM D7844*	>3	0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	4.8	5.6	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.4	20.7	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---
Sodium	ppm	ASTM D5185(m)		2	4	---
Boron	ppm	ASTM D5185(m)	1	31	182	---
Barium	ppm	ASTM D5185(m)	1	0	0	---
Molybdenum	ppm	ASTM D5185(m)	1	55	25	---
Manganese	ppm	ASTM D5185(m)		0	<1	---
Magnesium	ppm	ASTM D5185(m)	10	861	227	---
Calcium	ppm	ASTM D5185(m)	3032	1198	1852	---
Phosphorus	ppm	ASTM D5185(m)	1054	1008	994	---
Zinc	ppm	ASTM D5185(m)	1332	1167	1066	---
Sulfur	ppm	ASTM D5185(m)	3985	2765	2869	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.5	15.1	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.0	12.9	---

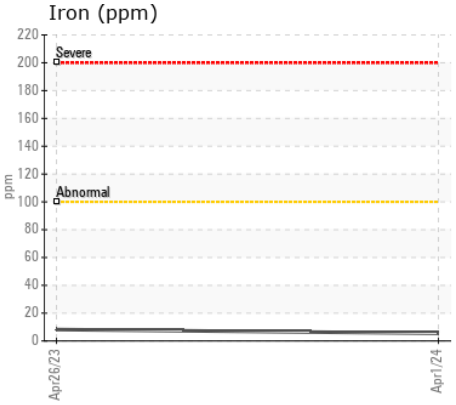
FT-IR (Direct Trend)



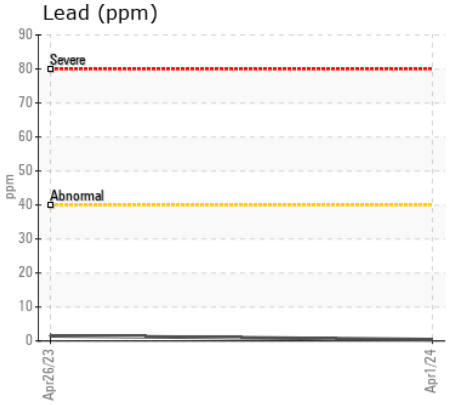
Viscosity @ 100°C



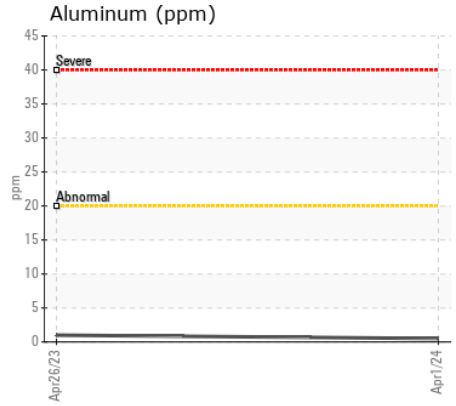
Iron (ppm)



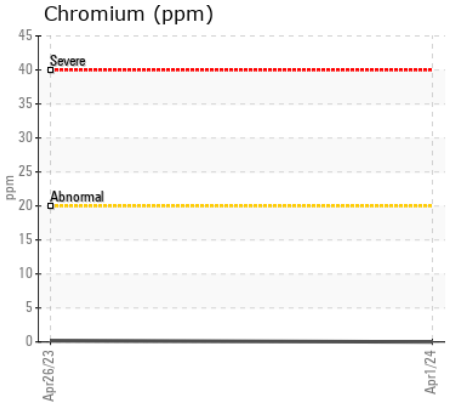
Lead (ppm)



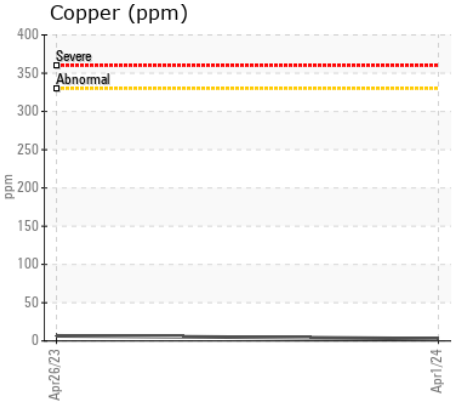
Aluminum (ppm)



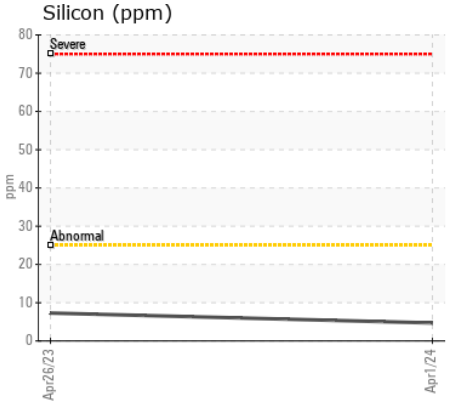
Chromium (ppm)



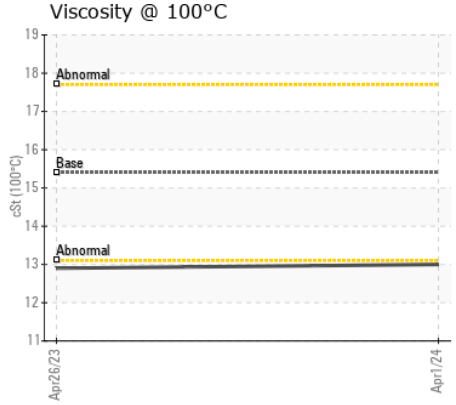
Copper (ppm)



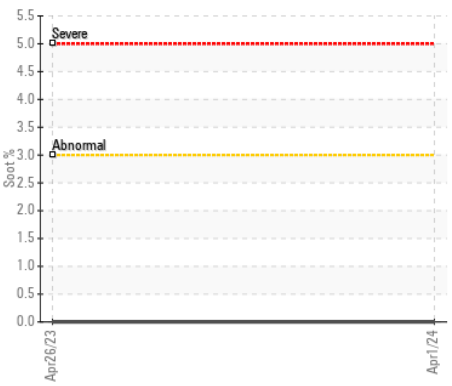
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0910641
Lab Number : 02632997
Unique Number : 5774150
Test Package : MOB 1

Received : 03 May 2024
Tested : 03 May 2024
Diagnosed : 03 May 2024 - Wes Davis

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.

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