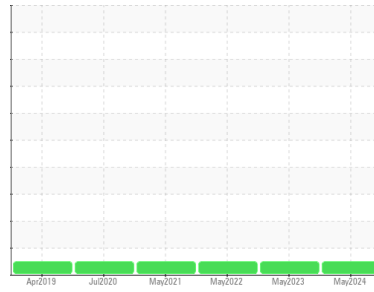




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
(EQ2706) S
 Machine Id
Scottsville BPS (S/N 46030427)
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON UHP 5W40 (16 QTS)

DIAGNOSIS

Recommendation

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

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0934067	WC0810885	WC0696106
Sample Date	Client Info	08 May 2024	18 May 2023	11 May 2022
Machine Age	hrs	803	778	752
Oil Age	hrs	51	44	752
Oil Changed	Client Info	Not Chngd	Not Chngd	Changed
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >3.0	<1.0	<1.0	<1.0
Water	WC Method >0.2	NEG	NEG	NEG
Glycol	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >90	4	2	2
Chromium	ppm ASTM D5185m >20	<1	0	<1
Nickel	ppm ASTM D5185m >2	0	0	0
Titanium	ppm ASTM D5185m >2	6	5	6
Silver	ppm ASTM D5185m >2	0	0	0
Aluminum	ppm ASTM D5185m >20	2	<1	<1
Lead	ppm ASTM D5185m >40	6	3	1
Copper	ppm ASTM D5185m >330	1	0	<1
Tin	ppm ASTM D5185m >15	<1	<1	0
Antimony	ppm ASTM D5185m	---	---	---
Vanadium	ppm ASTM D5185m	<1	0	0
Cadmium	ppm ASTM D5185m	<1	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 65	74	72	75
Barium	ppm ASTM D5185m 0	2	0	0
Molybdenum	ppm ASTM D5185m 65	58	53	55
Manganese	ppm ASTM D5185m 0	<1	<1	0
Magnesium	ppm ASTM D5185m 1160	1016	1050	1142
Calcium	ppm ASTM D5185m 820	938	904	964
Phosphorus	ppm ASTM D5185m 1160	1119	1025	1136
Zinc	ppm ASTM D5185m 1260	1212	1325	1276
Sulfur	ppm ASTM D5185m 3000	3623	3861	3214

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	5	2	3
Sodium	ppm ASTM D5185m	0	2	2
Potassium	ppm ASTM D5185m >20	2	<1	0

INFRA-RED

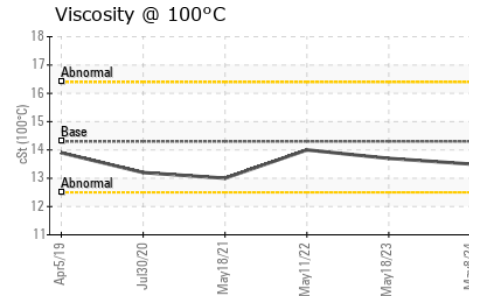
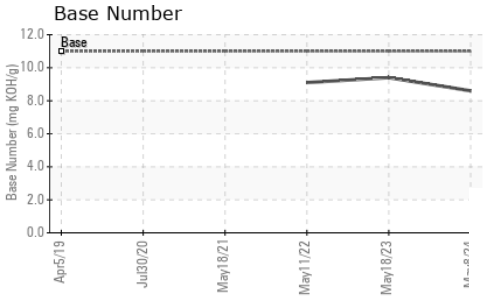
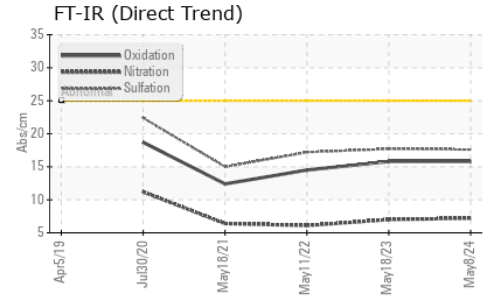
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >6	0.1	0.1	0.1
Nitration	Abs/cm *ASTM D7624 >20	7.2	7.0	6.1
Sulfation	Abs/.1mm *ASTM D7415 >30	17.6	17.7	17.2

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	15.8	15.8	14.5
Base Number (BN)	mg KOH/g ASTM D2896 11.0	8.6	9.4	9.1



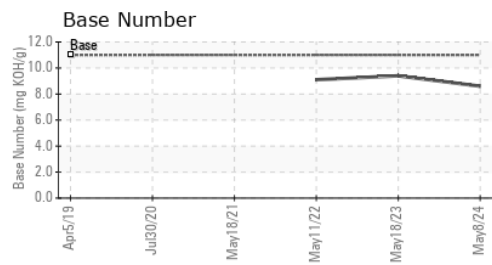
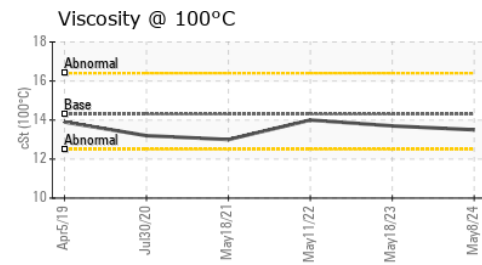
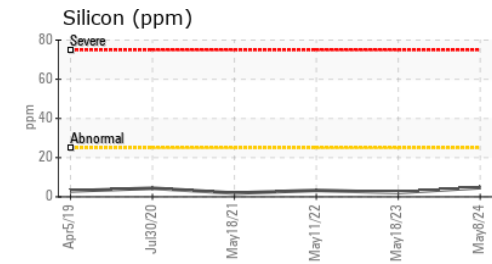
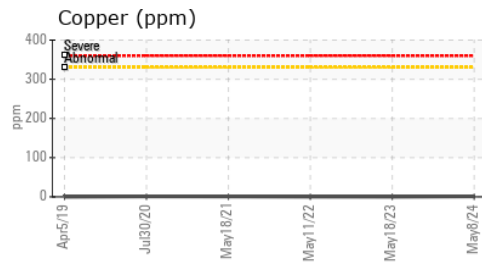
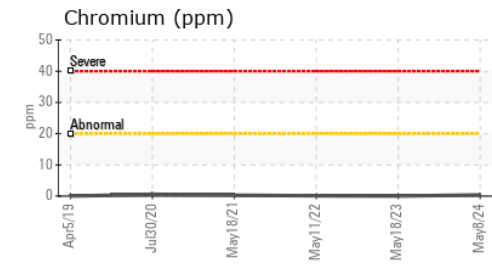
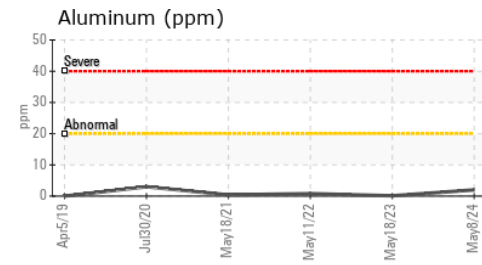
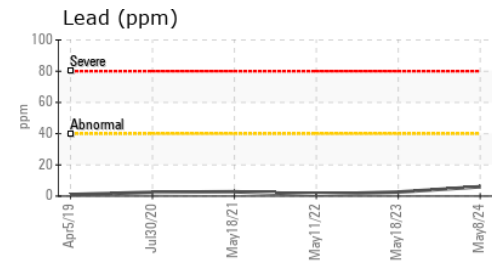
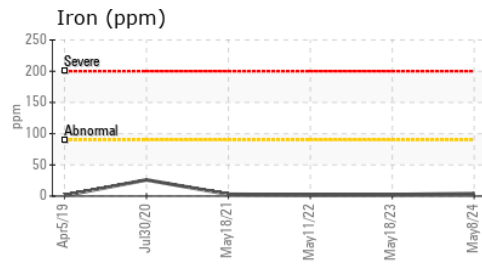
OIL ANALYSIS REPORT



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	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	14.3	13.5	13.7	14.0

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0934067 **Received** : 13 May 2024
Lab Number : 06176871 **Tested** : 14 May 2024
Unique Number : 11022924 **Diagnosed** : 14 May 2024 - Sean Felton
Test Package : MOB 1 (Additional Tests: TBN)

MONROE COUNTY WATER AUTHORITY
 4799 DEWEY AVE
 ROCHESTER, NY
 US 14612
 Contact: SCOTT TRAIL
 scott.trail@mcwa.com
 T: (585)775-5257
 F:

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)