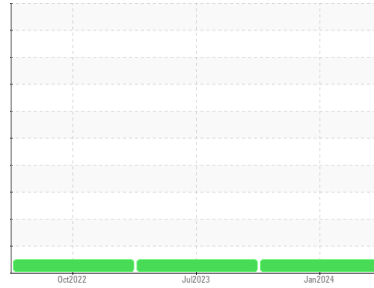




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id

523

Component

Diesel Engine

Fluid

PETRO CANADA DURON HP 15W40 (--- GAL)

DIAGNOSIS

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 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		WC0878882	WC0727385	WC0727432
Sample Date	Client Info		04 Jan 2024	18 Jul 2023	07 Oct 2022
Machine Age	mls	Client Info	144138	139216	129331
Oil Age	mls	Client Info	5000	0	0
Oil Changed	Client Info		N/A	Not Changd	Not Changd
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<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 >100	32	21	78
Chromium	ppm	ASTM D5185m >20	1	2	5
Nickel	ppm	ASTM D5185m >4	0	0	1
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m >3	0	0	0
Aluminum	ppm	ASTM D5185m >20	4	3	6
Lead	ppm	ASTM D5185m >40	0	0	1
Copper	ppm	ASTM D5185m >330	<1	<1	3
Tin	ppm	ASTM D5185m >15	0	0	<1
Vanadium	ppm	ASTM D5185m	0	0	<1
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	4	9	10
Barium	ppm	ASTM D5185m	0	<1	2
Molybdenum	ppm	ASTM D5185m	68	65	70
Manganese	ppm	ASTM D5185m	0	<1	1
Magnesium	ppm	ASTM D5185m	983	964	835
Calcium	ppm	ASTM D5185m	1179	1206	1319
Phosphorus	ppm	ASTM D5185m	1042	1083	1012
Zinc	ppm	ASTM D5185m	1306	1322	1324
Sulfur	ppm	ASTM D5185m	3169	3786	3486

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	4	3	8
Sodium	ppm	ASTM D5185m	<1	2	3
Potassium	ppm	ASTM D5185m >20	2	<1	4

INFRA-RED

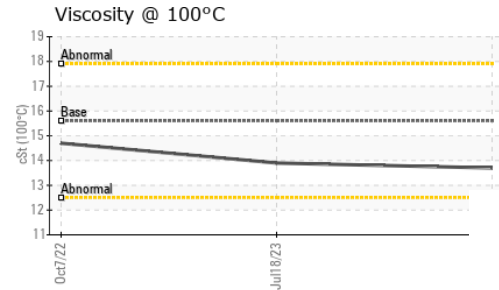
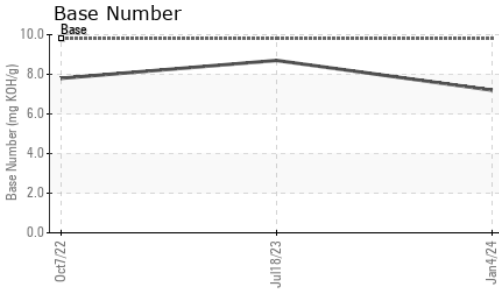
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.8	0.6	1.8
Nitration	Abs/cm	*ASTM D7624 >20	10.3	9.6	14.7
Sulfation	Abs/.1mm	*ASTM D7415 >30	21.7	19.0	28.1

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	18.1	15.0	23.8
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	7.2	8.7	7.8



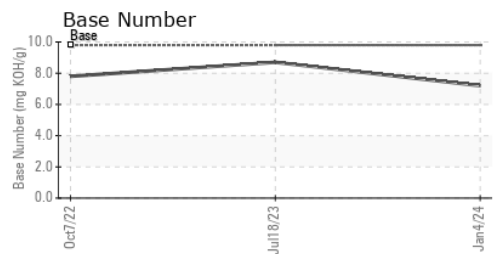
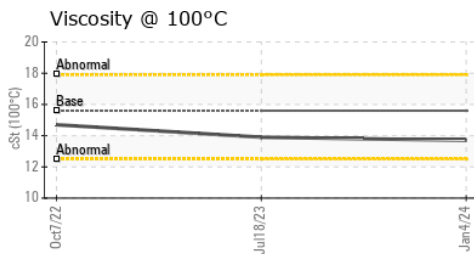
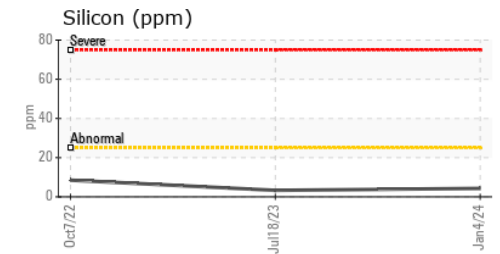
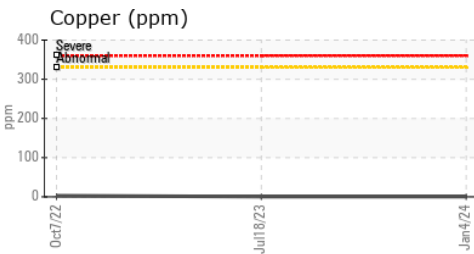
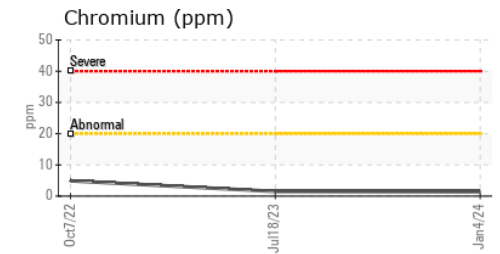
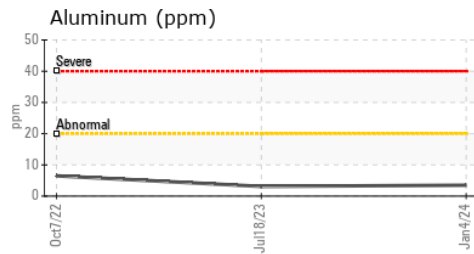
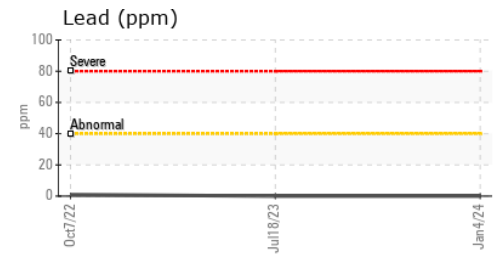
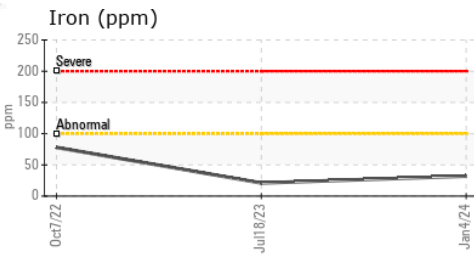
OIL ANALYSIS REPORT



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	15.6	13.7	13.9	14.7

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0878882 **Recieved** : 10 Jan 2024
Lab Number : 06057239 **Diagnosed** : 11 Jan 2024
Unique Number : 10823188 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: TBN)

WAYNE CO SCHOOL BUS GARAGE
 1603 SALEM CHURCH RD
 GOLDSBORO, NC
 US 27530
 Contact: BRANDON BRIGGS
 brandonbriggs@wcps.org
 T:
 F:

Certificate L2367
 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)