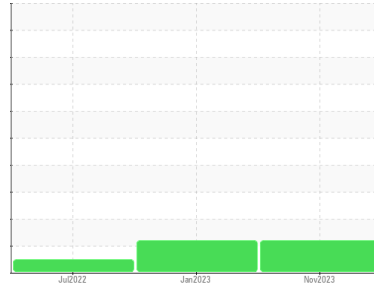




OIL ANALYSIS REPORT

Sample Rating Trend



GLYCOL



Machine Id

53

Component

Diesel Engine

Fluid

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

DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

▲ Contamination

Sodium and/or potassium levels are high. Test for glycol is negative.

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		WC0740587	WC0740626	WC0740561
Sample Date	Client Info		19 Nov 2023	11 Jan 2023	20 Jul 2022
Machine Age	mls	Client Info	0	69447	63541
Oil Age	mls	Client Info	0	0	5000
Oil Changed	Client Info		N/A	Not Changd	Not Changd
Sample Status			ABNORMAL	MARGINAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	▲ 3.2	<1.0
Water	WC Method	>0.2	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	46	35	60
Chromium	ppm	ASTM D5185m	>20	<1	1	2
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	14	30	23
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	1	2	11
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		27	2	9
Barium	ppm	ASTM D5185m		9	0	0
Molybdenum	ppm	ASTM D5185m		86	58	52
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		517	845	782
Calcium	ppm	ASTM D5185m		1592	1060	1142
Phosphorus	ppm	ASTM D5185m		1057	948	840
Zinc	ppm	ASTM D5185m		1230	1145	1117
Sulfur	ppm	ASTM D5185m		3857	2767	3207

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	5	6	13
Sodium	ppm	ASTM D5185m		31	0	3
Potassium	ppm	ASTM D5185m	>20	▲ 90	10	52
Glycol	%	*ASTM D2982		NEG	NEG	NEG

INFRA-RED

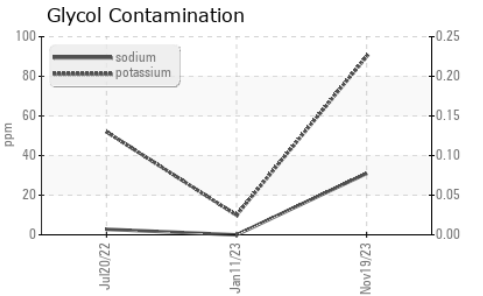
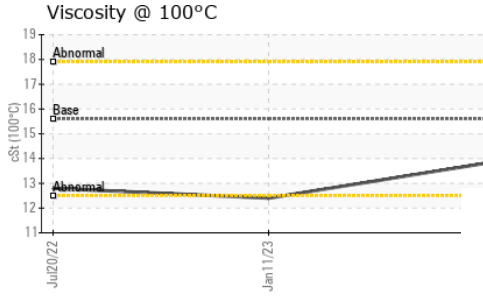
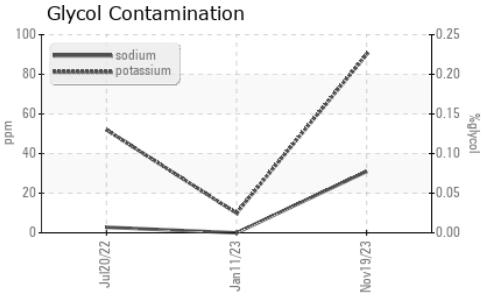
	method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.4	0.5	0.8
Nitration	Abs/cm	*ASTM D7624	>20	7.6	9.5	12.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	19.7	26.7

FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.3	16.8	23.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6	7.4	6.3



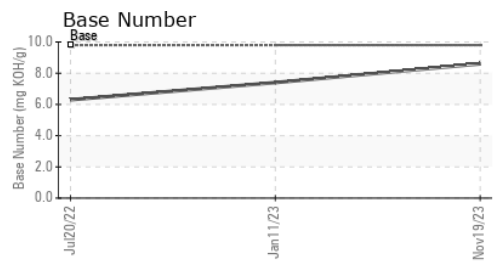
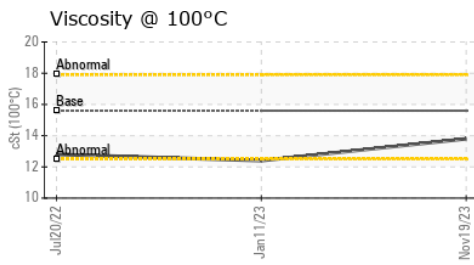
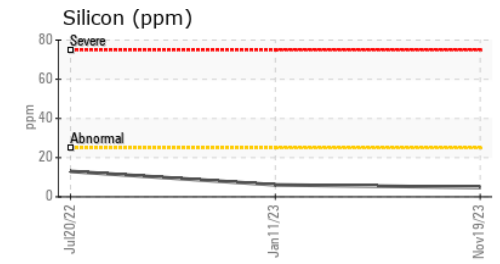
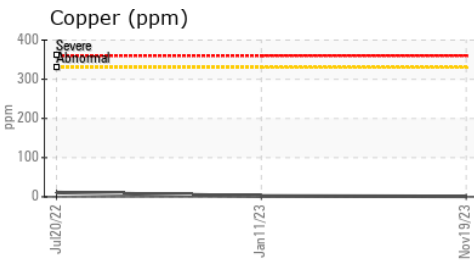
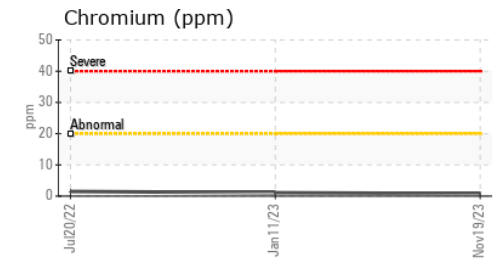
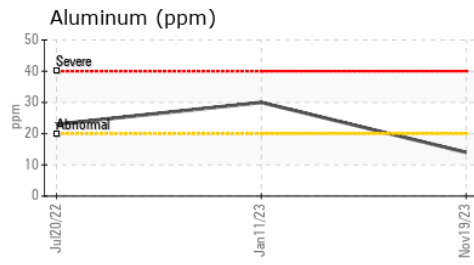
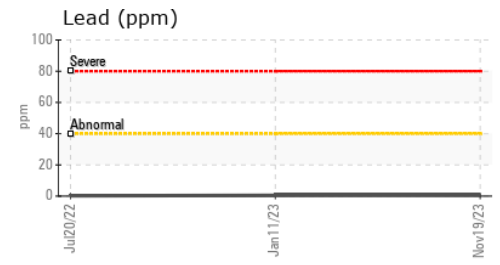
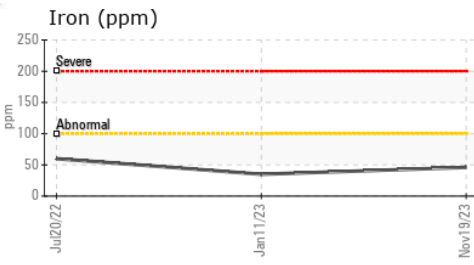
OIL ANALYSIS REPORT



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	13.8	▲ 12.4

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0740587 **Received** : 20 Nov 2023
Lab Number : 06013124 **Diagnosed** : 22 Nov 2023
Unique Number : 10752268 **Diagnostician** : Jonathan Hester
Test Package : MOB 1 (Additional Tests: Glycol, TBN)

ANSON CO SCHOOL BUS GARAGE
 89 BOGGAN CUT RD
 WADESBORO, NC
 US 28135
 Contact: MATT POWELL
 powell.berkeley@anson.k12.nc.us

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)