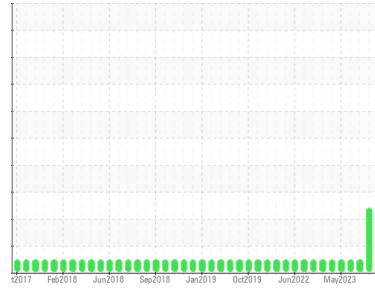


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL


Area
MCGINN BUS COMPANY

Machine Id
11423

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS
Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material. Tests indicate that there is no fuel present in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the 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			PCA0104412	PCA0090528	PCA0090629
Sample Date	Client Info			19 Dec 2023	21 Oct 2023	09 Sep 2023
Machine Age	mls Client Info			535602	522995	510627
Oil Age	mls Client Info			12000	24000	12000
Oil Changed	Client Info			Changed	Changed	Not Changed
Sample Status				NORMAL	SEVERE	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
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	72	5
Chromium	ppm	ASTM D5185m	>20	1	3	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	4	0
Lead	ppm	ASTM D5185m	>40	0	13	0
Copper	ppm	ASTM D5185m	>330	0	2	0
Tin	ppm	ASTM D5185m	>15	0	3	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

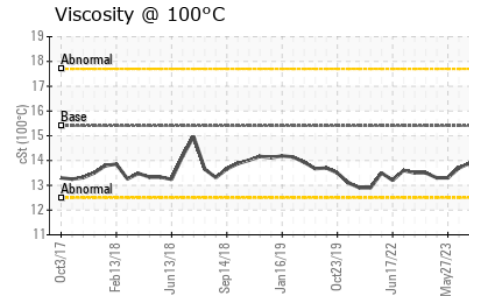
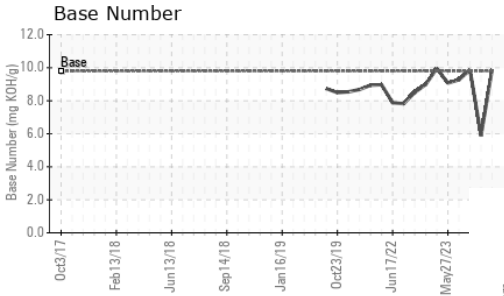
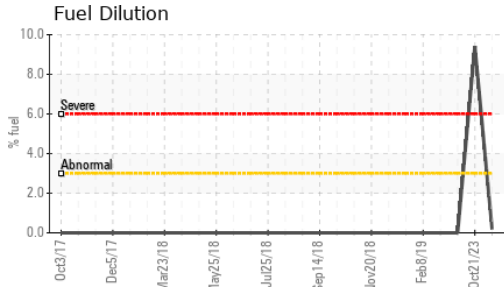
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	5	7
Barium	ppm	ASTM D5185m	0	4	0	0
Molybdenum	ppm	ASTM D5185m	60	62	49	62
Manganese	ppm	ASTM D5185m	0	0	<1	0
Magnesium	ppm	ASTM D5185m	1010	940	795	1078
Calcium	ppm	ASTM D5185m	1070	1084	878	1187
Phosphorus	ppm	ASTM D5185m	1150	1072	826	1104
Zinc	ppm	ASTM D5185m	1270	1245	1012	1376
Sulfur	ppm	ASTM D5185m	2060	3516	2472	4075

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	32	5	3
Sodium	ppm	ASTM D5185m		11	4	0
Potassium	ppm	ASTM D5185m	>20	9	0	0
Fuel	%	ASTM D3524	>3.0	0.2	9.4	<1.0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.3	5.5	0.2
Nitration	Abs/cm	*ASTM D7624	>20	7.9	17.0	7.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	32.7	19.4

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6	21.0	15.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.89	5.89	9.87

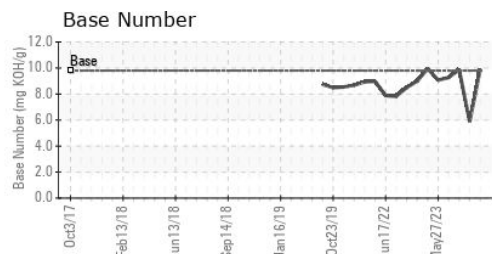
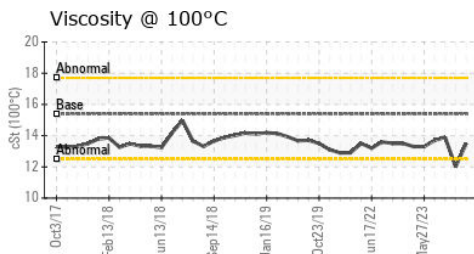
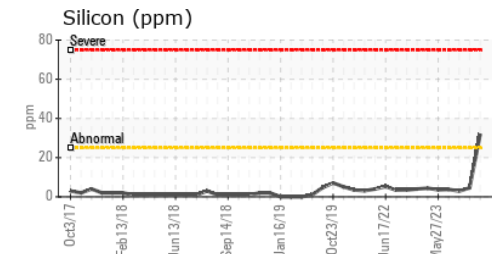
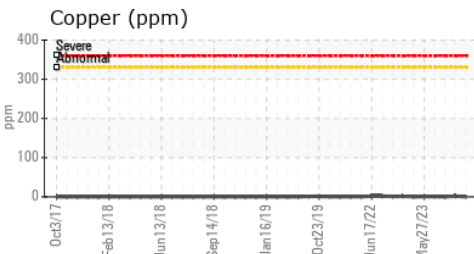
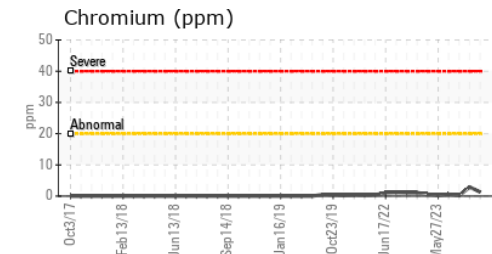
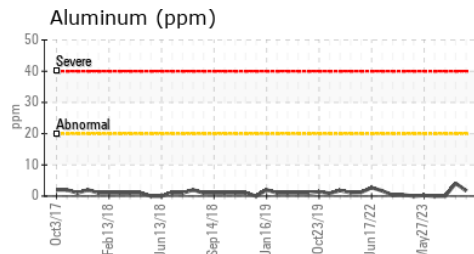
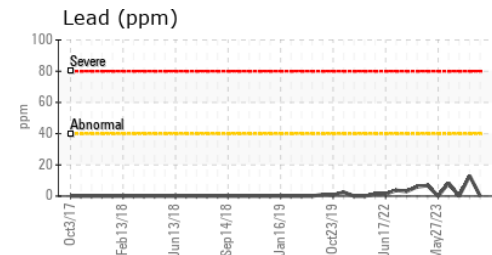
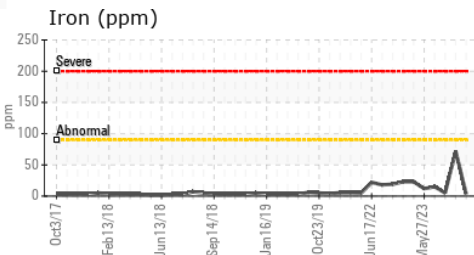
OIL ANALYSIS REPORT



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	15.4	13.5	▲ 12.0	13.9

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0104412 **Recieved** : 02 Jan 2024
Lab Number : **06049123** **Diagnosed** : 03 Jan 2024
Unique Number : 10809731 **Diagnostician** : Sean Felton
Test Package : MOB 2 (Additional Tests: PercentFuel)

MGINN BUS CO
 36 ALLEY ST
 LYNN, MA
 US 01902
 Contact: TOM SCHULZ
 tommcginnbus@aol.com

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)

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F: