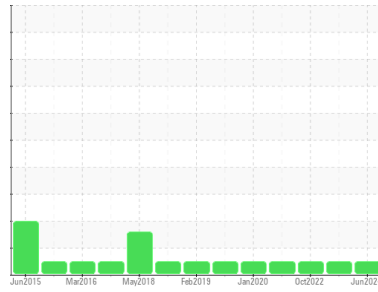


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
TEMSA MOTOR COACH 159U
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

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		PCA0112160	PCA0095372	PCA0082313
Sample Date	Client Info		07 Jun 2024	30 Jun 2023	11 Oct 2022
Machine Age	mls	Client Info	292998	269121	254291
Oil Age	mls	Client Info	10561	14830	22656
Oil Changed	Client Info		Changed	Changed	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	30	79	50
Chromium	ppm	ASTM D5185m >20	2	7	2
Nickel	ppm	ASTM D5185m >2	<1	<1	0
Titanium	ppm	ASTM D5185m >2	<1	<1	0
Silver	ppm	ASTM D5185m >2	<1	0	2
Aluminum	ppm	ASTM D5185m >20	5	13	7
Lead	ppm	ASTM D5185m >40	0	0	<1
Copper	ppm	ASTM D5185m >330	4	3	3
Tin	ppm	ASTM D5185m >15	0	<1	<1
Antimony	ppm	ASTM D5185m	---	---	---
Vanadium	ppm	ASTM D5185m	0	<1	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	15	2	5
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 60	72	66	67
Manganese	ppm	ASTM D5185m 0	1	<1	<1
Magnesium	ppm	ASTM D5185m 1010	945	961	931
Calcium	ppm	ASTM D5185m 1070	1135	1124	1160
Phosphorus	ppm	ASTM D5185m 1150	1040	1045	1040
Zinc	ppm	ASTM D5185m 1270	1228	1312	1291
Sulfur	ppm	ASTM D5185m 2060	3554	3397	3346

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	5	10	4
Sodium	ppm	ASTM D5185m	8	9	4
Potassium	ppm	ASTM D5185m >20	5	5	5

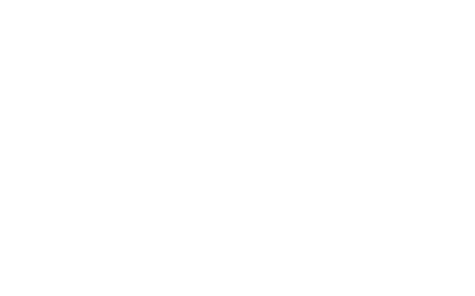
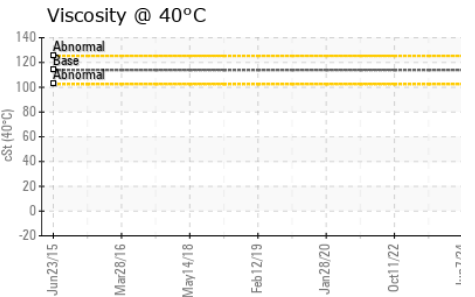
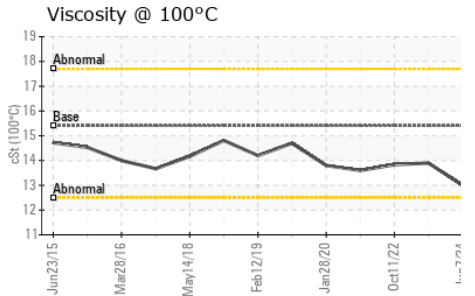
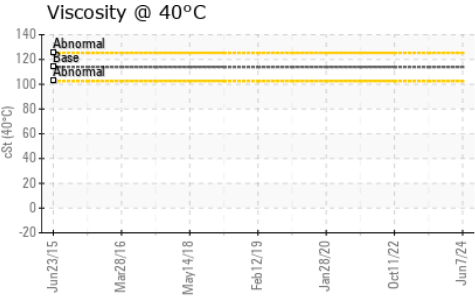
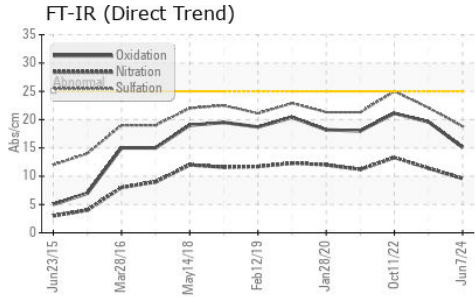
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >6	0.5	0.9	1.1
Nitration	Abs/cm	*ASTM D7624 >20	9.6	11.4	13.3
Sulfation	Abs/.1mm	*ASTM D7415 >30	18.8	22.1	25.0

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	15.1	19.6	21.1
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	9.01	10.19	11.4

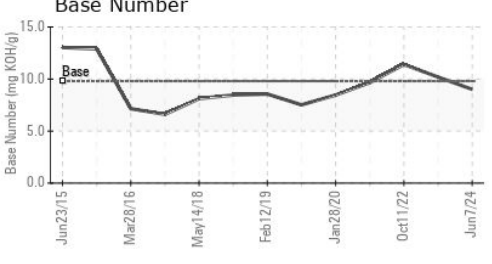
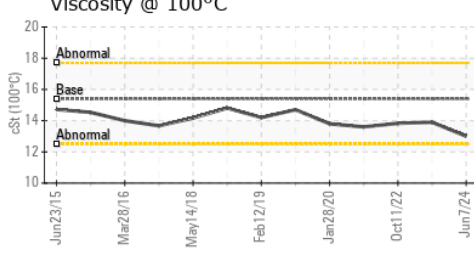
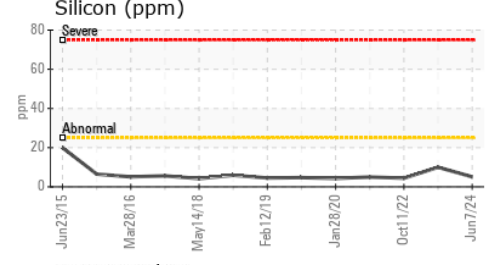
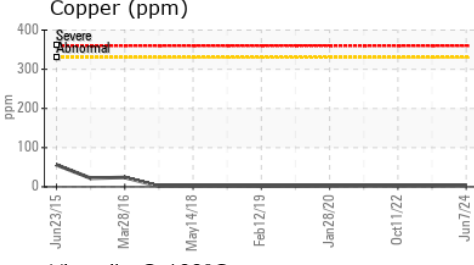
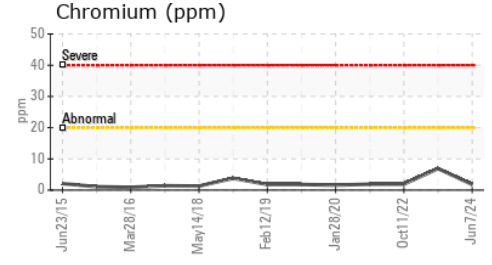
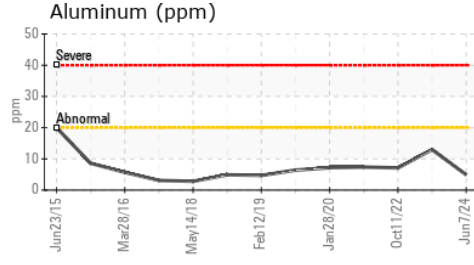
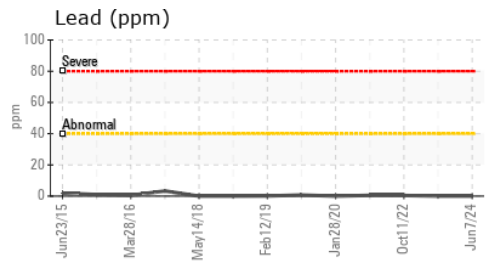
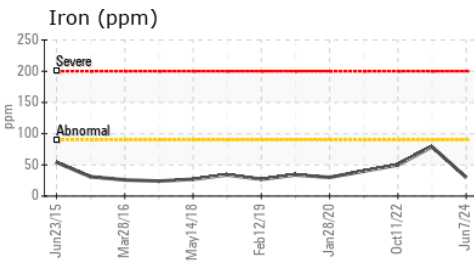
OIL ANALYSIS REPORT



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	13.0	13.9	13.83

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0112160 **Received** : 28 Jun 2024
Lab Number : **06223654** **Tested** : 01 Jul 2024
Unique Number : 11101851 **Diagnosed** : 01 Jul 2024 - Jonathan Hester
Test Package : MOB 2 (Additional Tests: KV40)

BROWN BUS COMPANY - UPSTATE TRANSIT
 50 VENNERS ROAD
 AMSTERDAM, NY
 US 12010
 Contact: **CONNIE WILBUR**
 cwilbur@browncoach.com
 T: (518)843-4700
 F: (518)843-3600

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)