

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

2014 MCI D4500 78

Diesel Engine

PETRO CANADA DURON XL SYN BLEND 15W40 (9 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

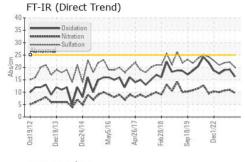
Fluid Condition

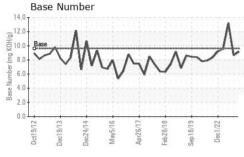
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

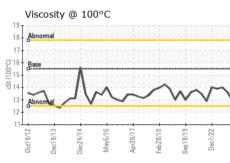
ion to (5 GAL)						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0111560	PCA0111548	PCA0101061
Sample Date		Client Info		01 Apr 2024	07 Dec 2023	11 Jul 2023
Machine Age	mls	Client Info		337116	328656	316054
Oil Age	mls	Client Info		8450	12602	9374
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	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 METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>165	11	16	12
Chromium	ppm	ASTM D5185m	>5	1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	2	2
Lead	ppm	ASTM D5185m	>150	2	3	3
Copper	ppm	ASTM D5185m	>90	<1	<1	<1
Tin	ppm	ASTM D5185m	>5	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	1	14	2	<1
Barium	ppm	ASTM D5185m	1	0	0	0
Molybdenum	ppm	ASTM D5185m	60	79	70	64
Manganese	ppm	ASTM D5185m	1	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	950	1081	1077
Calcium	ppm	ASTM D5185m	1070	1170	1146	1183
Phosphorus	ppm	ASTM D5185m	1150	1109	1022	1092
Zinc	ppm	ASTM D5185m	1270	1273	1399	1333
Sulfur	ppm	ASTM D5185m	2060	3466	3121	3646
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	8	10	11
Sodium	ppm	ASTM D5185m		3	<1	2
Potassium	ppm	ASTM D5185m	>20	<1	1	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.3	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	9.7	10.9	10.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	22.1	21.9
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	19.2	18.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.6	9.17	8.66	13.19
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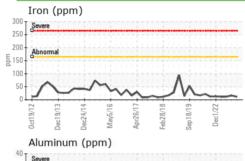




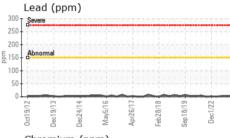


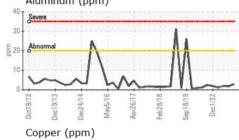
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

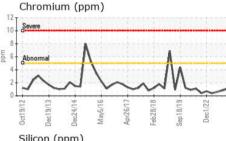
FLUID PROPE	EKITES	method	ilmivbase		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.5	12.9	13.6	14.0

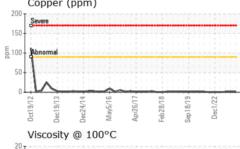


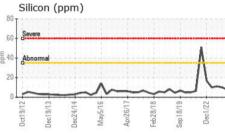
GRAPHS

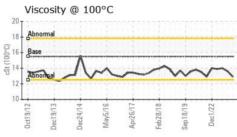


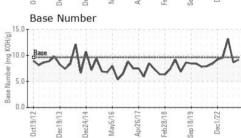
















Certificate 12367

Laboratory Sample No.

Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0111560 Lab Number : 06159320 Unique Number : 10994743

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received : 24 Apr 2024 **Tested** Diagnosed

: 25 Apr 2024 : 25 Apr 2024 - Wes Davis

BROWN BUS COMPANY - UPSTATE TRANSIT

50 VENNER ROAD AMSTERDAM, NY US 12010

Contact: CONNIE WILBUR cwilbur@browncoach.com

* - 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)

T: (518)843-4700 F: (518)843-3600 Contact/Location: CONNIE WILBUR - BROAMS