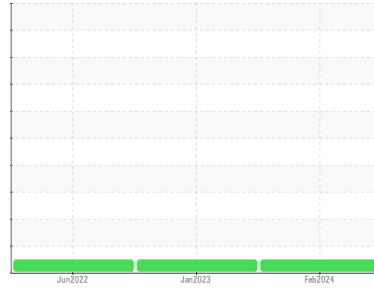


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
621335
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

Metal levels are typical for a new component breaking in.

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		PCA0114575	PCA0085210	PCA0073249
Sample Date	Client Info		09 Feb 2024	10 Jan 2023	28 Jun 2022
Machine Age	mls Client Info		46233	0	9730
Oil Age	mls Client Info		46233	29167	9730
Oil Changed	Client Info		Changed	Changed	Changed
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	13	18	25
Chromium	ppm ASTM D5185m	>20	<1	<1	<1
Nickel	ppm ASTM D5185m	>4	0	<1	0
Titanium	ppm ASTM D5185m		2	6	<1
Silver	ppm ASTM D5185m	>3	<1	0	1
Aluminum	ppm ASTM D5185m	>20	2	8	12
Lead	ppm ASTM D5185m	>40	0	6	2
Copper	ppm ASTM D5185m	>330	80	151	273
Tin	ppm ASTM D5185m	>15	<1	3	5
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	2	5	85	292
Barium	ppm ASTM D5185m	0	0	0	5
Molybdenum	ppm ASTM D5185m	50	48	70	114
Manganese	ppm ASTM D5185m	0	<1	1	6
Magnesium	ppm ASTM D5185m	950	764	730	689
Calcium	ppm ASTM D5185m	1050	964	1498	1577
Phosphorus	ppm ASTM D5185m	995	777	868	667
Zinc	ppm ASTM D5185m	1180	1006	1116	836
Sulfur	ppm ASTM D5185m	2600	2230	2781	2718

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>25	4	10	43
Sodium	ppm ASTM D5185m		0	<1	2
Potassium	ppm ASTM D5185m	>20	2	20	17

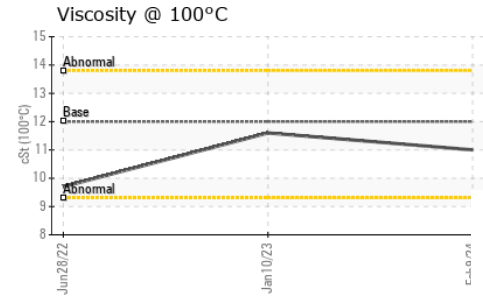
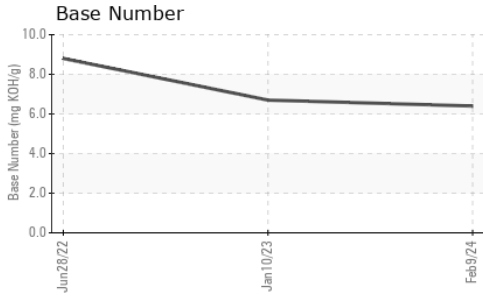
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>3	0.2	0.2	0.2
Nitration	Abs/cm *ASTM D7624	>20	9.0	8.9	10.5
Sulfation	Abs/.1mm *ASTM D7415	>30	19.7	21.9	26.3

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	15.4	17.0	24.9
Base Number (BN)	mg KOH/g ASTM D2896		6.4	6.7	8.8

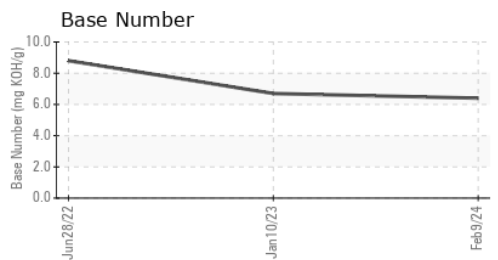
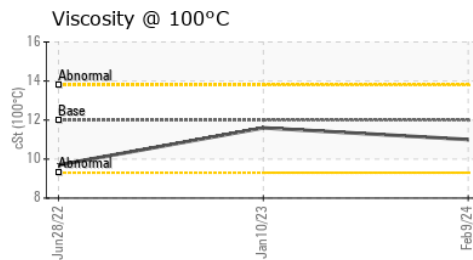
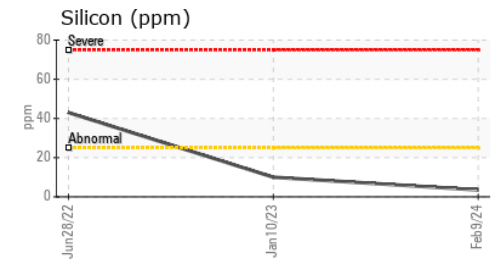
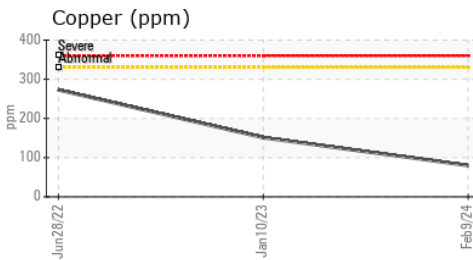
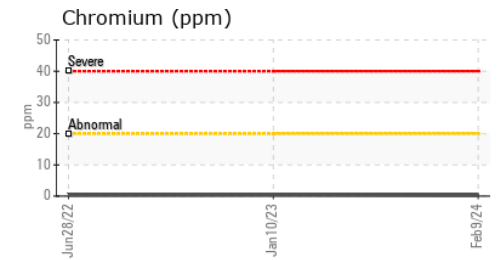
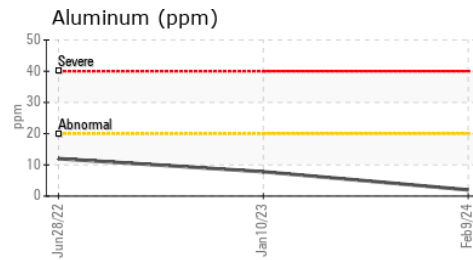
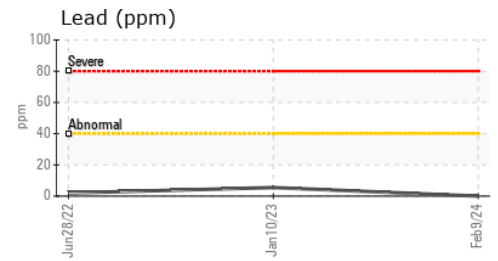
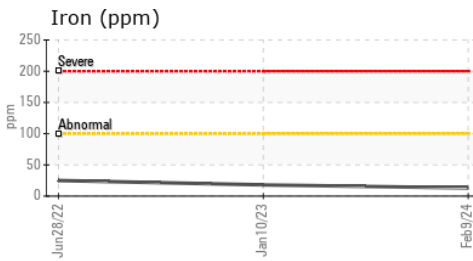
OIL ANALYSIS REPORT



PARAMETER	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	12.00	11.0	11.6

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0114575 **Received** : 21 Feb 2024
Lab Number : 06095304 **Tested** : 23 Feb 2024
Unique Number : 10888157 **Diagnosed** : 23 Feb 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: TBN)

MILLER TRUCK LEASING #118
 2196 BENNETT ROAD
 PHILADELPHIA, PA
 US 19116
 Contact: ROSTY VITER
 rviter@millertransgroup.com
 T: (215)552-9832
 F: (215)552-9892

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)