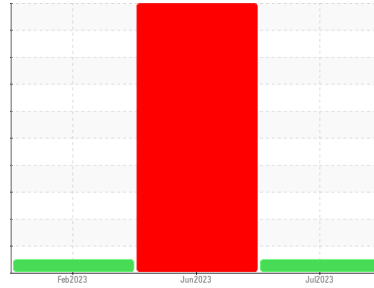


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
734062
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- 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	PCA0100785	PCA0100765	PCA0093288
Sample Date	Client Info	28 Jul 2023	23 Jun 2023	18 Feb 2023
Machine Age	mls Client Info	0	77626	0
Oil Age	mls Client Info	0	77626	0
Oil Changed	Client Info	N/A	Changed	N/A
Sample Status		NORMAL	SEVERE	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<1.0	<1.0	<1.0

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >100	30	▲ 103	27
Chromium	ppm ASTM D5185m >20	4	10	<1
Nickel	ppm ASTM D5185m >4	0	<1	0
Titanium	ppm ASTM D5185m	<1	<1	3
Silver	ppm ASTM D5185m >3	0	0	0
Aluminum	ppm ASTM D5185m >20	36	■ 109	5
Lead	ppm ASTM D5185m >40	0	0	<1
Copper	ppm ASTM D5185m >330	51	175	84
Tin	ppm ASTM D5185m >15	1	5	<1
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 2	11	24	9
Barium	ppm ASTM D5185m 0	2	0	0
Molybdenum	ppm ASTM D5185m 50	56	46	66
Manganese	ppm ASTM D5185m 0	1	4	3
Magnesium	ppm ASTM D5185m 950	817	569	931
Calcium	ppm ASTM D5185m 1050	1270	1785	1353
Phosphorus	ppm ASTM D5185m 995	949	719	984
Zinc	ppm ASTM D5185m 1180	1130	882	1307
Sulfur	ppm ASTM D5185m 2600	2806	2004	2794

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	5	11	8
Sodium	ppm ASTM D5185m	2	12	2
Potassium	ppm ASTM D5185m >20	68	▲ 246	4
Glycol	% *ASTM D2982	NEG	▲ 0.06	NEG

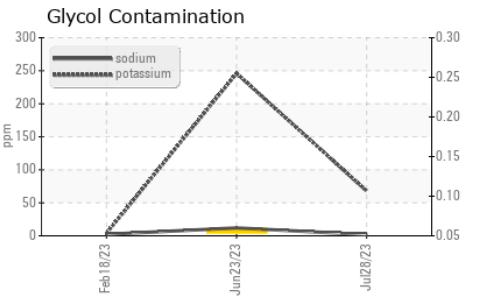
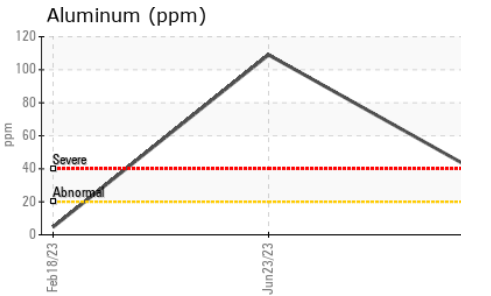
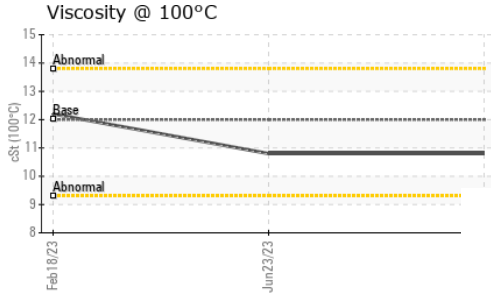
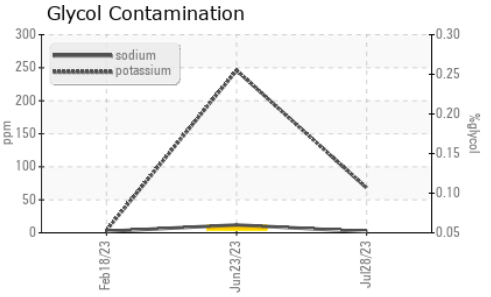
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.5	1.6	0.1
Nitration	Abs/cm *ASTM D7624 >20	7.8	14.3	12.2
Sulfation	Abs/.1mm *ASTM D7415 >30	20.0	27.1	22.8

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	16.3	30.3	22.9
Base Number (BN)	mg KOH/g ASTM D2896	8.4	6.0	6.8

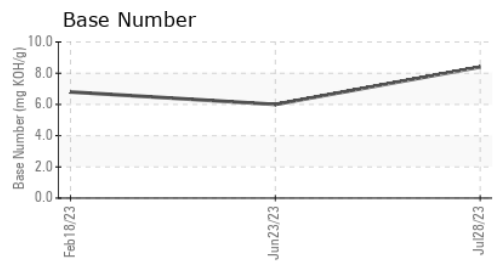
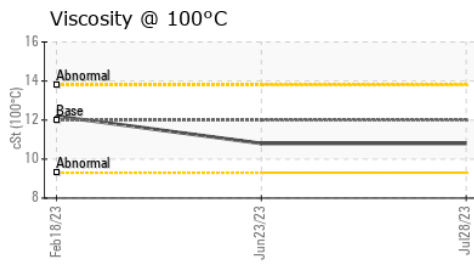
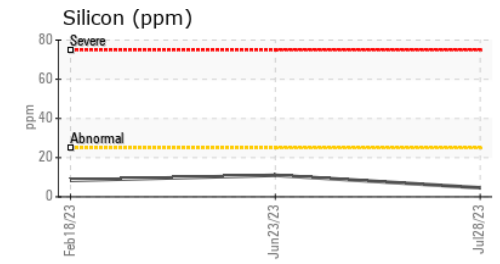
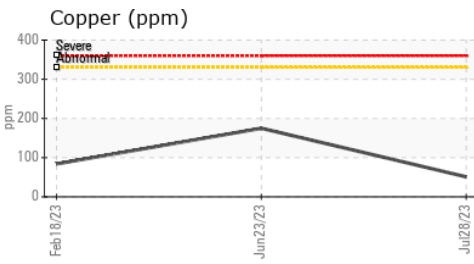
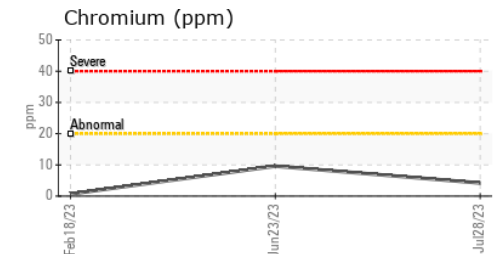
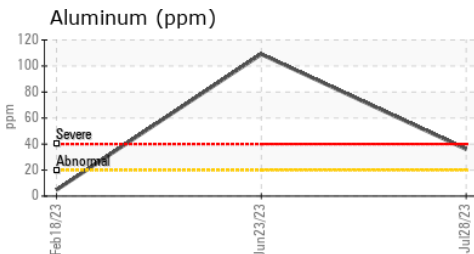
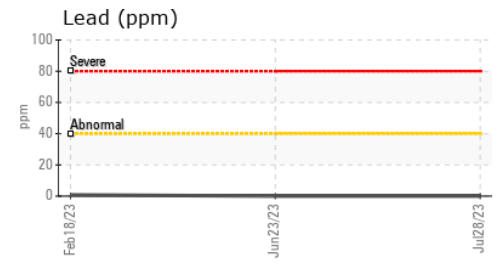
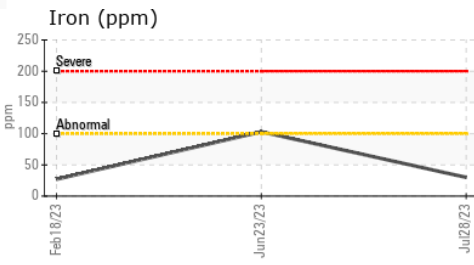
OIL ANALYSIS REPORT



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 12.00	10.8	10.8	12.2

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0100785 **Received** : 10 Aug 2023
Lab Number : 05921260 **Diagnosed** : 11 Aug 2023
Unique Number : 10593174 **Diagnostician** : Jonathan Hester
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

Certificate L2367
 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)