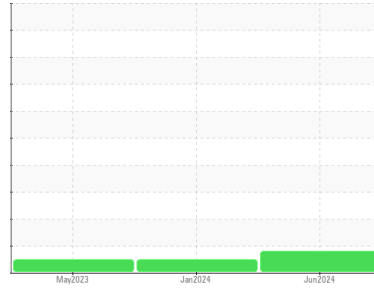


OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
(16071Z) Walgreens - Tractor
 Machine Id
[Walgreens - Tractor] 136A61363
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (11 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

The aluminum level is abnormal. All other 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		PCA0127127	PCA0111090	PCA0096047
Sample Date	Client Info		26 Jun 2024	11 Jan 2024	02 May 2023
Machine Age	mls	Client Info	346175	287650	247213
Oil Age	mls	Client Info	60000	50000	50000
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			ABNORMAL	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 >80	54	31	21
Chromium	ppm	ASTM D5185m >5	3	3	2
Nickel	ppm	ASTM D5185m >2	0	0	<1
Titanium	ppm	ASTM D5185m	0	<1	0
Silver	ppm	ASTM D5185m >3	0	0	0
Aluminum	ppm	ASTM D5185m >30	32	12	10
Lead	ppm	ASTM D5185m >30	0	0	0
Copper	ppm	ASTM D5185m >150	6	6	7
Tin	ppm	ASTM D5185m >5	0	0	<1
Vanadium	ppm	ASTM D5185m	0	<1	0
Cadmium	ppm	ASTM D5185m	0	0	0

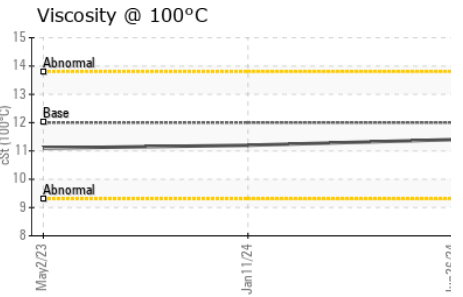
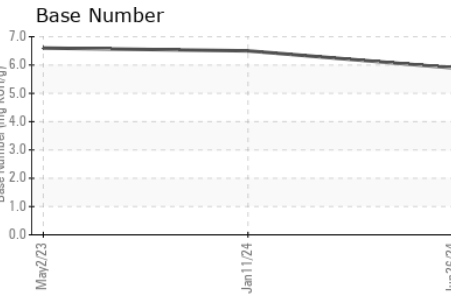
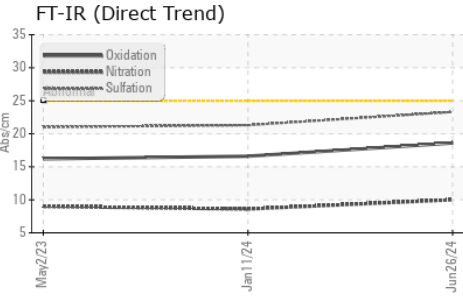
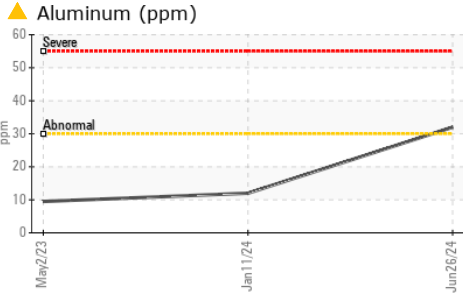
ADDITIVES	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<1	1	4
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 50	63	63	68
Manganese	ppm	ASTM D5185m 0	0	<1	<1
Magnesium	ppm	ASTM D5185m 950	932	985	853
Calcium	ppm	ASTM D5185m 1050	1094	1120	1095
Phosphorus	ppm	ASTM D5185m 995	1026	1011	925
Zinc	ppm	ASTM D5185m 1180	1274	1275	1193
Sulfur	ppm	ASTM D5185m 2600	2804	2747	2801

CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	4	5	4
Sodium	ppm	ASTM D5185m	2	2	0
Potassium	ppm	ASTM D5185m >20	4	2	6

INFRA-RED	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	1.4	0.9	0.8
Nitration	Abs/cm	*ASTM D7624 >20	10.0	8.6	9.0
Sulfation	Abs/.1mm	*ASTM D7415 >30	23.3	21.3	21.0

FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	18.6	16.6	16.2
Base Number (BN)	mg KOH/g	ASTM D2896	5.9	6.5	6.6

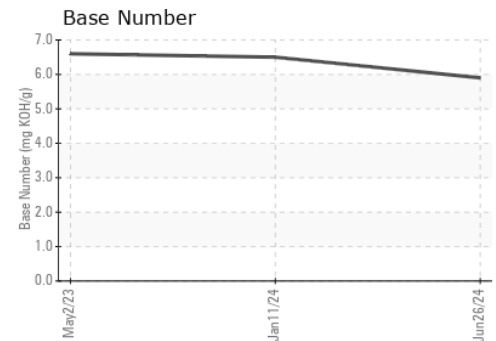
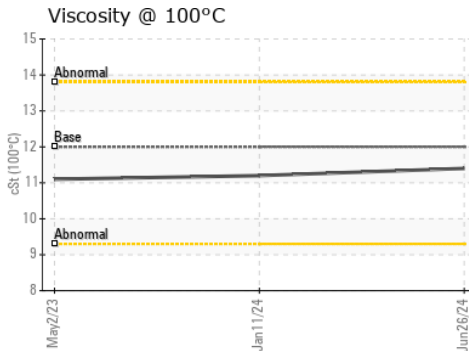
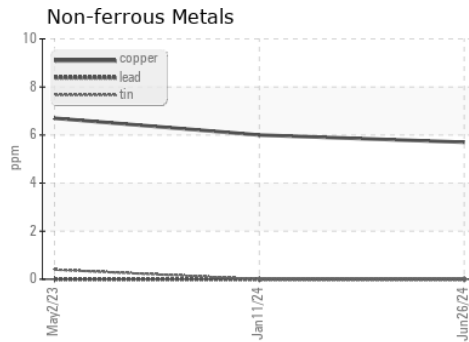
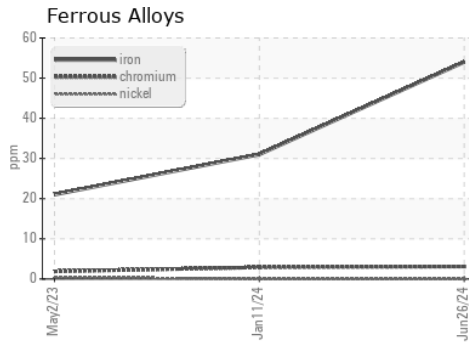
OIL ANALYSIS REPORT



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	11.4	11.2

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0127127
Lab Number : 06235410
Unique Number : 11124244
Test Package : FLEET
Received : 15 Jul 2024
Tested : 15 Jul 2024
Diagnosed : 15 Jul 2024 - Don Baldrige

Transervice - Shop 1370 - Berkeley-Perrysburg
 28727 Oregon Road
 Perrysburg, OH
 US 43551
 Contact: Curtis Hart
 chart@transervice.com
 T: (419)666-3277
 F: (419)666-3279

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)