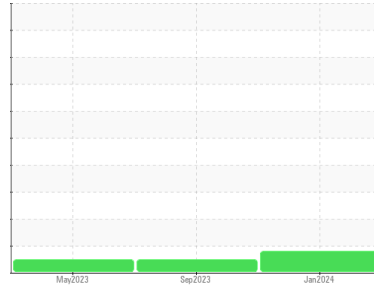


OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
(55226Z) Walgreens - Tractor
Machine Id
[Walgreens - Tractor] 136A63358
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (11 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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		PCA0105895	PCA0105903	PCA0091489
Sample Date	Client Info		26 Jan 2024	07 Sep 2023	18 May 2023
Machine Age	mls	Client Info	86751	56016	33920
Oil Age	mls	Client Info	30735	56016	33920
Oil Changed	Client Info		Oil Added	Changed	Oil Added
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	31	71	53
Chromium	ppm	ASTM D5185m >5	3	6	4
Nickel	ppm	ASTM D5185m >2	2	2	1
Titanium	ppm	ASTM D5185m	0	<1	<1
Silver	ppm	ASTM D5185m >3	<1	<1	<1
Aluminum	ppm	ASTM D5185m >30	35	100	59
Lead	ppm	ASTM D5185m >30	<1	<1	2
Copper	ppm	ASTM D5185m >150	▲ 259	179	194
Tin	ppm	ASTM D5185m >5	2	6	5
Vanadium	ppm	ASTM D5185m	<1	0	<1
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	4	28	38
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 50	56	42	43
Manganese	ppm	ASTM D5185m 0	2	5	5
Magnesium	ppm	ASTM D5185m 950	842	548	580
Calcium	ppm	ASTM D5185m 1050	1094	1683	1726
Phosphorus	ppm	ASTM D5185m 995	936	726	747
Zinc	ppm	ASTM D5185m 1180	1163	906	936
Sulfur	ppm	ASTM D5185m 2600	2453	2245	2278

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	4	9	8
Sodium	ppm	ASTM D5185m	3	6	6
Potassium	ppm	ASTM D5185m >20	86	237	145

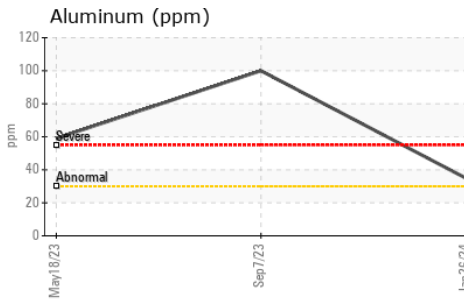
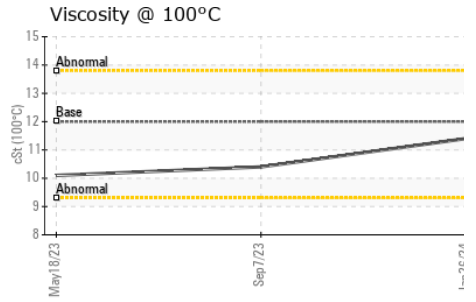
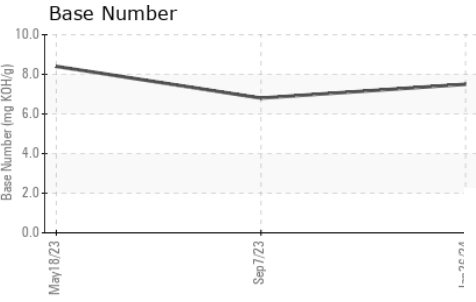
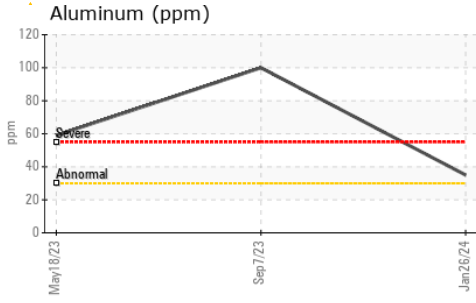
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.6	0.8	0.5
Nitration	Abs/cm	*ASTM D7624 >20	9.0	11.0	9.5
Sulfation	Abs/.1mm	*ASTM D7415 >30	20.3	22.4	23.5

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	17.7	23.4	23.4
Base Number (BN)	mg KOH/g	ASTM D2896	7.5	6.8	8.4

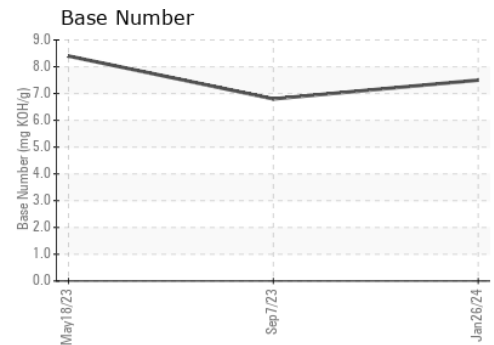
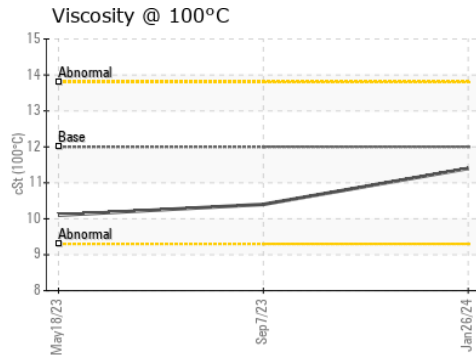
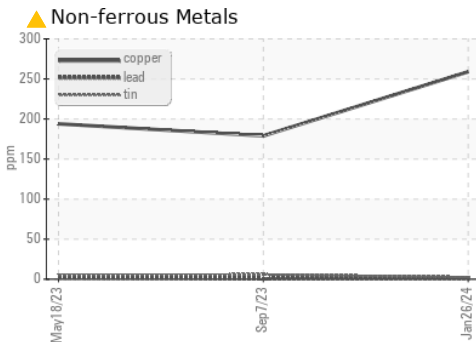
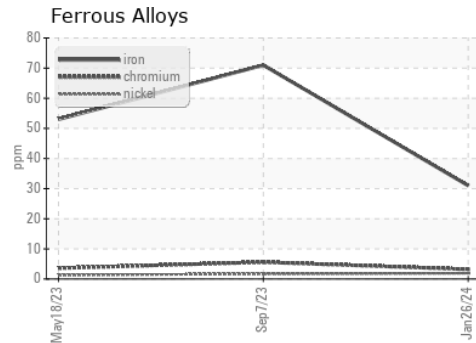
OIL ANALYSIS REPORT



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	12.00	11.4	10.4

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0105895
Lab Number : 06081928
Unique Number : 10869373
Test Package : FLEET

Transervice - Shop 1361 - Berkeley-Windsor
 4400 State Road 19
 Windsor, WI
 US 53598
 Contact: Mike Hurda
 mhurda@transervice.com
 T: (608)846-2726
 F: (608)846-0389

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)