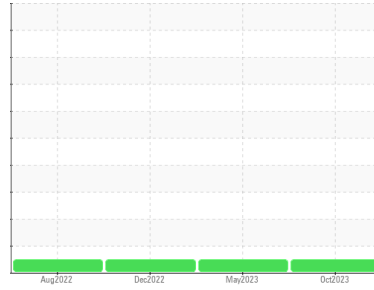


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
(89657X) Walgreens - Tractor
Machine Id
[Walgreens - Tractor] 136A69078
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (11 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 acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0082407	PCA0097099	PCA0087944
Sample Date	Client Info		31 Oct 2023	17 May 2023	06 Dec 2022
Machine Age	mls	Client Info	660983	613278	554705
Oil Age	mls	Client Info	47705	58573	60342
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
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >80	32	43	60
Chromium	ppm	ASTM D5185m >5	2	3	5
Nickel	ppm	ASTM D5185m >2	<1	<1	<1
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m >3	0	0	0
Aluminum	ppm	ASTM D5185m >30	18	31	69
Lead	ppm	ASTM D5185m >30	0	<1	0
Copper	ppm	ASTM D5185m >150	3	4	7
Tin	ppm	ASTM D5185m >5	<1	1	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	8	8	6
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 50	62	65	60
Manganese	ppm	ASTM D5185m 0	<1	1	1
Magnesium	ppm	ASTM D5185m 950	951	951	862
Calcium	ppm	ASTM D5185m 1050	1212	1218	1275
Phosphorus	ppm	ASTM D5185m 995	1089	1039	944
Zinc	ppm	ASTM D5185m 1180	1344	1301	1121
Sulfur	ppm	ASTM D5185m 2600	2979	3225	2361

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	6	7	8
Sodium	ppm	ASTM D5185m	1	3	4
Potassium	ppm	ASTM D5185m >20	16	37	153

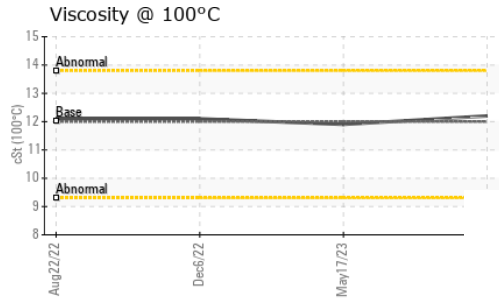
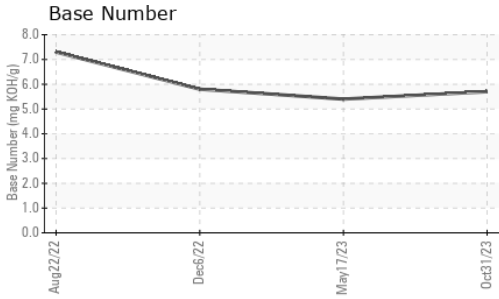
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	1.5	1.4	1.7
Nitration	Abs/cm	*ASTM D7624 >20	10.7	11.4	12.1
Sulfation	Abs/.1mm	*ASTM D7415 >30	28.8	25.5	28.1

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	26.0	21.2	22.9
Base Number (BN)	mg KOH/g	ASTM D2896	5.7	5.4	5.8

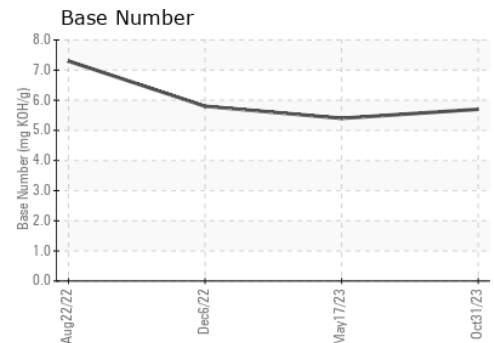
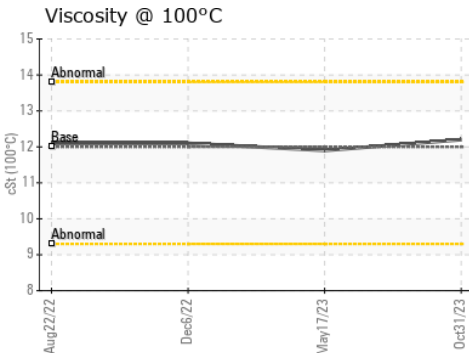
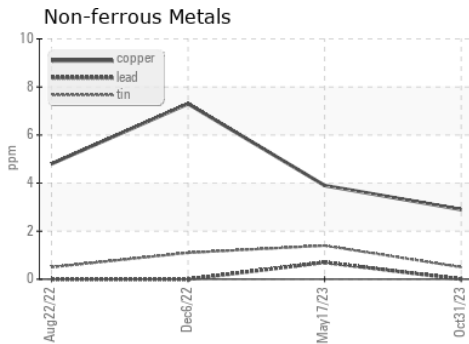
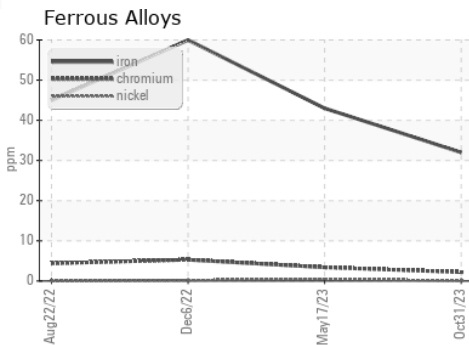
OIL ANALYSIS REPORT



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	12.2	11.9	12.1

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0082407
Lab Number : 05999608
Unique Number : 10727968
Test Package : FLEET

Received : 06 Nov 2023
Diagnosed : 08 Nov 2023
Diagnostician : Don Baldrige

Transervice - Shop 1373 - Berkeley-Anderson/Pendergrass
 101 Alliance Parkway
 Willamston, SC
 US 29697

Contact: Sonny Boucher
 sboucher@transervice.com
 T: (864)226-2304
 F: (864)226-2329

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)