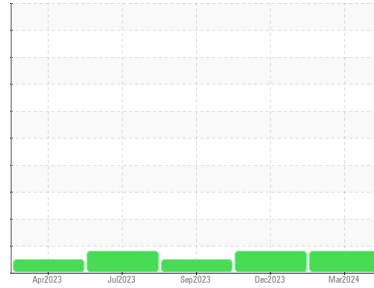


OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
(51455Z) Walgreens - Tractor
 Machine Id
[Walgreens - Tractor] 136A63281
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (11 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. 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).

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		PCA0112827	PCA0112875	PCA0103848
Sample Date	Client Info		15 Mar 2024	07 Dec 2023	06 Sep 2023
Machine Age	mls	Client Info	112220	81656	52296
Oil Age	mls	Client Info	59924	29360	52296
Oil Changed	Client Info		Changed	Not Changd	Changed
Sample Status			ABNORMAL	ABNORMAL	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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >80	23	24	56
Chromium	ppm	ASTM D5185m >5	6	2	3
Nickel	ppm	ASTM D5185m >2	<1	<1	<1
Titanium	ppm	ASTM D5185m	<1	<1	0
Silver	ppm	ASTM D5185m >3	0	0	0
Aluminum	ppm	ASTM D5185m >30	5	14	52
Lead	ppm	ASTM D5185m >30	<1	0	2
Copper	ppm	ASTM D5185m >150	▲ 192	▲ 178	145
Tin	ppm	ASTM D5185m >5	<1	2	4
Vanadium	ppm	ASTM D5185m	0	0	<1
Cadmium	ppm	ASTM D5185m	0	<1	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	11	2	25
Barium	ppm	ASTM D5185m 0	0	12	0
Molybdenum	ppm	ASTM D5185m 50	75	61	51
Manganese	ppm	ASTM D5185m 0	1	1	4
Magnesium	ppm	ASTM D5185m 950	804	857	545
Calcium	ppm	ASTM D5185m 1050	1249	1200	1958
Phosphorus	ppm	ASTM D5185m 995	852	890	759
Zinc	ppm	ASTM D5185m 1180	1098	1131	965
Sulfur	ppm	ASTM D5185m 2600	2466	2263	2279

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	6	5	11
Sodium	ppm	ASTM D5185m	36	20	14
Potassium	ppm	ASTM D5185m >20	61	91	178
Glycol	%	*ASTM D2982	NEG	NEG	NEG

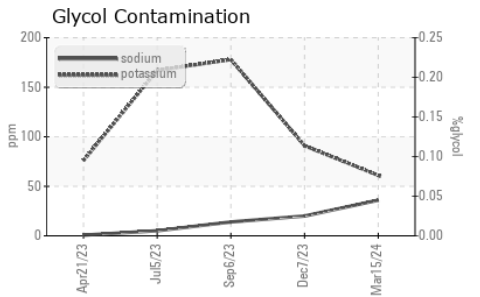
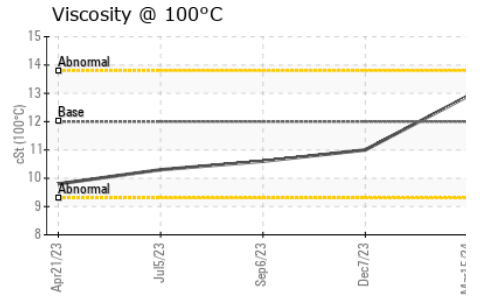
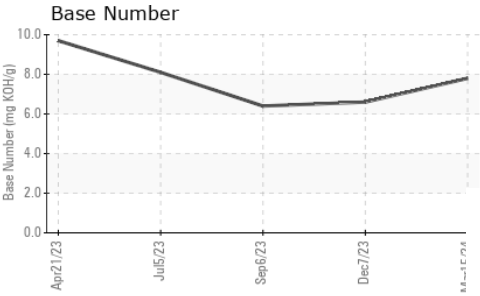
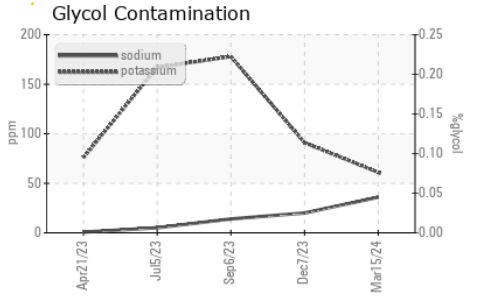
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.3	0.4	0.5
Nitration	Abs/cm	*ASTM D7624 >20	8.3	8.9	11.2
Sulfation	Abs/.1mm	*ASTM D7415 >30	20.2	20.7	23.6

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	16.8	18.3	25.6
Base Number (BN)	mg KOH/g	ASTM D2896	7.8	6.6	6.4

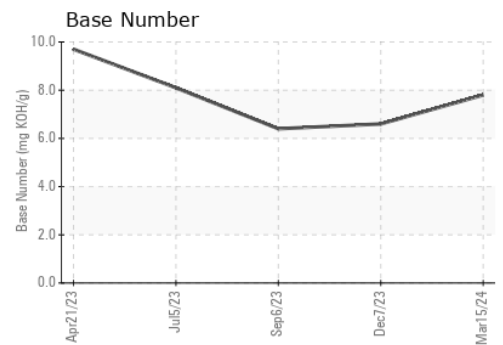
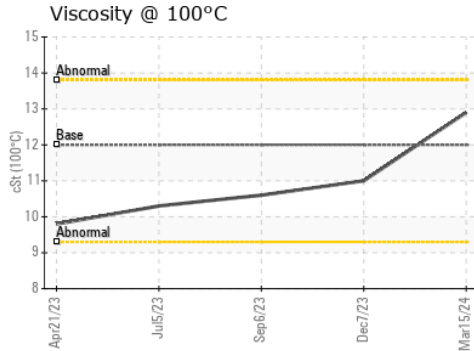
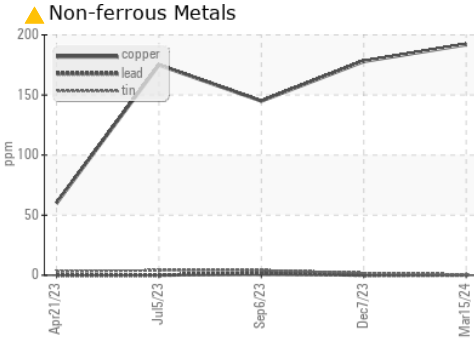
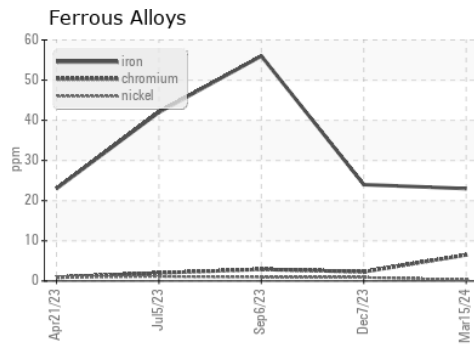
OIL ANALYSIS REPORT



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

PARAMETER	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	12.9	11.0

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0112827
Lab Number : 06126197
Unique Number : 10940348
Test Package : FLEET (Additional Tests: Glycol)

Transervice - Shop 1364 - Berkeley-Mt. Vernon
 5100 Lake Terrace NE
 Mt. Vernon, IL
 US 62864
 Contact: Erien White
 ewhite@transervice.com
 T: (618)244-8726
 F: (618)244-8791

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)