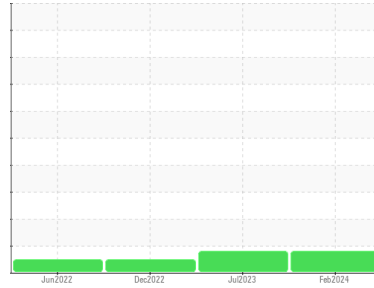


OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
(92459X) Walgreens - Tractor
 Machine Id
[Walgreens - Tractor] 136A62030
 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			PCA0111799	PCA0101024	PCA0087922
Sample Date	Client Info			22 Feb 2024	06 Jul 2023	13 Dec 2022
Machine Age	mls Client Info			570894	529526	453669
Oil Age	mls Client Info			44368	72857	69682
Oil Changed	Client Info			Changed	Changed	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
Glycol	WC Method			NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m	>80		51	61	36
Chromium	ppm ASTM D5185m	>5		4	5	4
Nickel	ppm ASTM D5185m	>2		0	<1	<1
Titanium	ppm ASTM D5185m			0	0	0
Silver	ppm ASTM D5185m	>3		0	0	0
Aluminum	ppm ASTM D5185m	>30		▲ 30	▲ 33	20
Lead	ppm ASTM D5185m	>30		0	0	0
Copper	ppm ASTM D5185m	>150		0	7	7
Tin	ppm ASTM D5185m	>5		<1	<1	<1
Vanadium	ppm ASTM D5185m			0	0	0
Cadmium	ppm ASTM D5185m			0	0	0

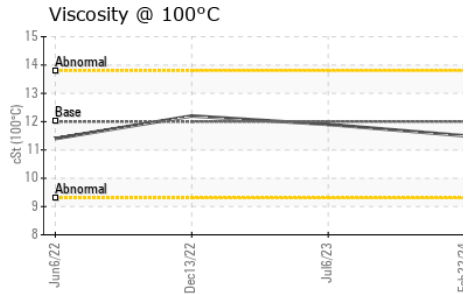
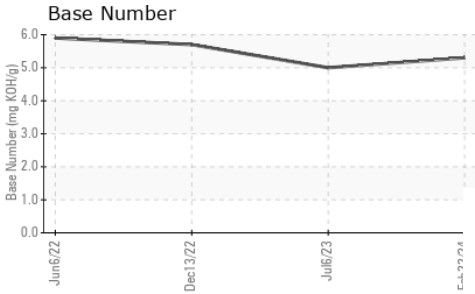
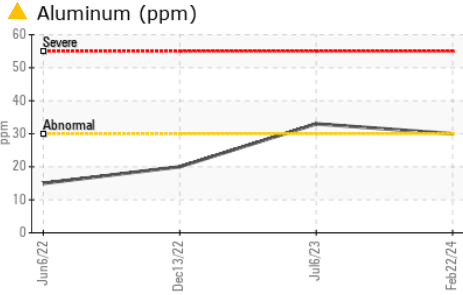
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	2		6	2	5
Barium	ppm ASTM D5185m	0		2	0	0
Molybdenum	ppm ASTM D5185m	50		61	68	55
Manganese	ppm ASTM D5185m	0		0	1	<1
Magnesium	ppm ASTM D5185m	950		852	996	842
Calcium	ppm ASTM D5185m	1050		1133	1182	1154
Phosphorus	ppm ASTM D5185m	995		980	1060	903
Zinc	ppm ASTM D5185m	1180		1172	1359	1098
Sulfur	ppm ASTM D5185m	2600		2426	3097	2192

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>20		7	10	8
Sodium	ppm ASTM D5185m			<1	2	2
Potassium	ppm ASTM D5185m	>20		<1	5	1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>3		1.5	1.7	1.9
Nitration	Abs/cm *ASTM D7624	>20		10.4	12.3	12.8
Sulfation	Abs/.1mm *ASTM D7415	>30		25.3	26.7	28.3

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25		20.4	22.5	23.0
Base Number (BN)	mg KOH/g ASTM D2896			5.3	5.0	5.7

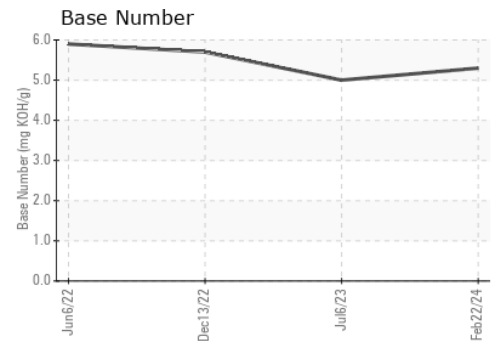
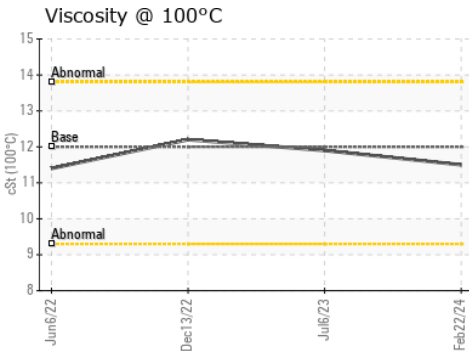
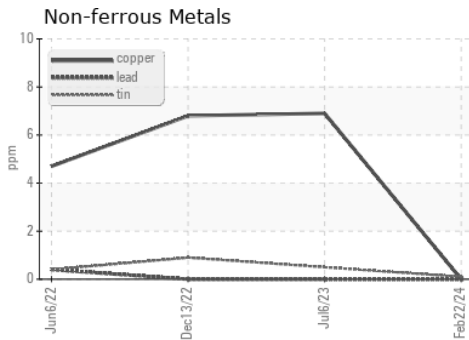
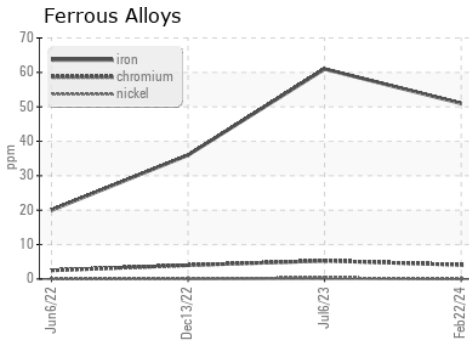
OIL ANALYSIS REPORT



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	11.5	11.9

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0111799 **Received** : 05 Mar 2024
Lab Number : 06109127 **Tested** : 06 Mar 2024
Unique Number : 10912624 **Diagnosed** : 07 Mar 2024 - Sean Felton
Test Package : FLEET

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)