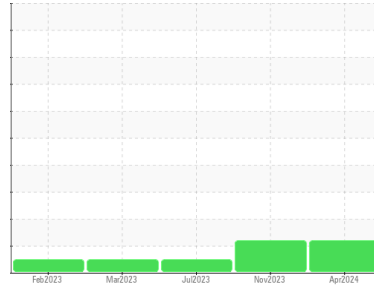


OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION



Area
(APPLIEDFOR) Walgreens - Tractor
 Machine Id
[Walgreens - Tractor] 136A62549
 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. 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 level is low. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PCA0107532	PCA0107549	PCA0094396
Sample Date	Client Info			01 Apr 2024	27 Nov 2023	28 Jul 2023
Machine Age	mls	Client Info		246245	194049	114088
Oil Age	mls	Client Info		246245	194049	114088
Oil Changed	Client Info			Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>2.0		<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	>100	39	46	10
Chromium	ppm	ASTM D5185m	>20	2	4	<1
Nickel	ppm	ASTM D5185m	>4	4	7	6
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	6	11	4
Lead	ppm	ASTM D5185m	>40	8	10	2
Copper	ppm	ASTM D5185m	>330	9	15	9
Tin	ppm	ASTM D5185m	>15	<1	2	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

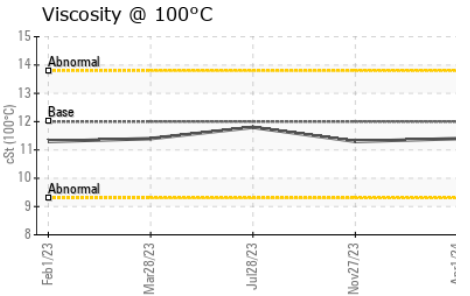
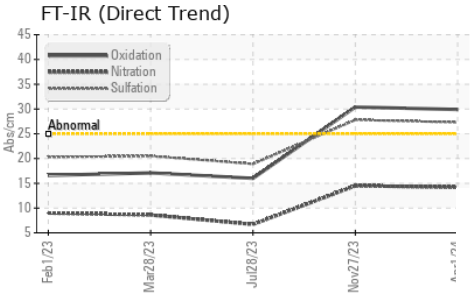
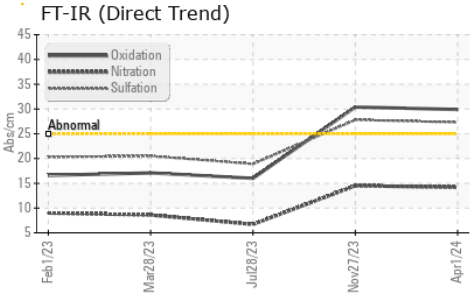
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	0	3	7
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	61	61	57
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	950	962	962	888
Calcium	ppm	ASTM D5185m	1050	1223	1146	1084
Phosphorus	ppm	ASTM D5185m	995	1011	1074	1000
Zinc	ppm	ASTM D5185m	1180	1287	1296	1235
Sulfur	ppm	ASTM D5185m	2600	2797	2355	3190

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	8	6
Sodium	ppm	ASTM D5185m		2	1	1
Potassium	ppm	ASTM D5185m	>20	10	23	6

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.6	0.1
Nitration	Abs/cm	*ASTM D7624	>20	14.2	14.5	6.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.3	27.8	18.9

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	29.9	30.4	16.0
Base Number (BN)	mg KOH/g	ASTM D2896		▲ 1.8	▲ 2.2	8.9

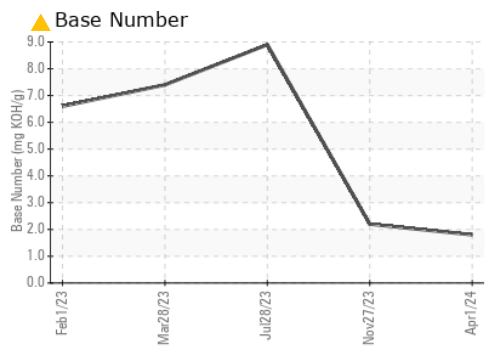
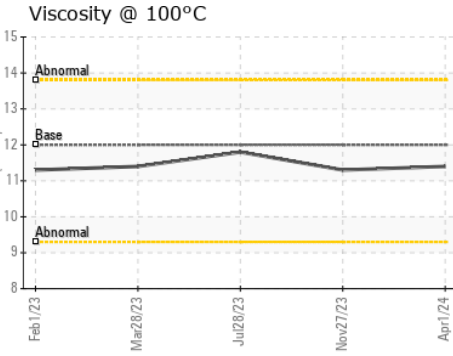
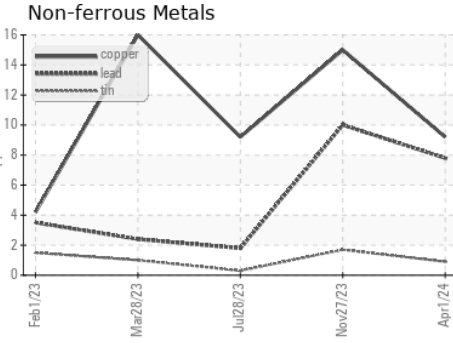
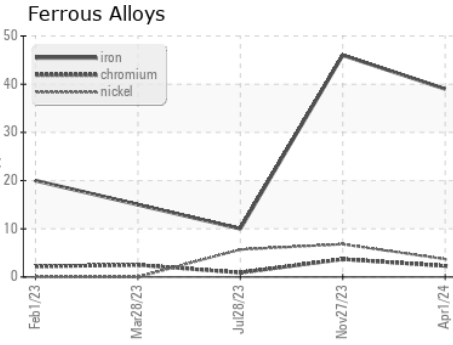
OIL ANALYSIS REPORT



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	11.3	11.8

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0107532 **Received** : 08 Apr 2024
Lab Number : **06141995** **Tested** : 09 Apr 2024
Unique Number : 10966803 **Diagnosed** : 10 Apr 2024 - Don Baldrige
Test Package : FLEET

Transervice - Shop 1367 - Berkeley-Jupiter
 15998 Walgreens Drive
 Jupiter, FL 33478
 Contact: Manny Gonzalez
 egonzalez@transervice.com
 T: (561)776-0755
 F: (561)776-0799

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)