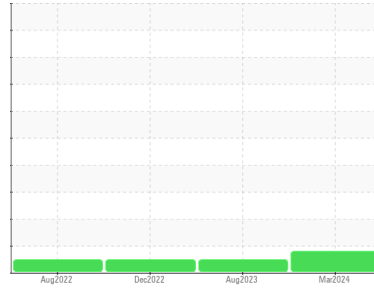


OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Area
(14254Z) Walgreens - Tractor
 Machine Id
[Walgreens - Tractor] 136A61439
 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
 Cylinder, crank, or cam shaft wear is indicated. 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	PCA0116428	PCA0101018	PCA0087923
Sample Date	Client Info	19 Mar 2024	02 Aug 2023	12 Dec 2022
Machine Age	mls	278087	231919	179627
Oil Age	mls	46168	52292	46414
Oil Changed	Client Info	Changed	Changed	Changed
Sample Status		ABNORMAL	NORMAL	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	▲ 119	19	79
Chromium	ppm ASTM D5185m >20	5	<1	3
Nickel	ppm ASTM D5185m >4	<1	0	1
Titanium	ppm ASTM D5185m	0	0	0
Silver	ppm ASTM D5185m >3	0	0	0
Aluminum	ppm ASTM D5185m >20	12	5	9
Lead	ppm ASTM D5185m >40	11	<1	2
Copper	ppm ASTM D5185m >330	4	4	10
Tin	ppm ASTM D5185m >15	4	<1	1
Vanadium	ppm ASTM D5185m	<1	<1	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 2	6	5	5
Barium	ppm ASTM D5185m 0	<1	0	0
Molybdenum	ppm ASTM D5185m 50	69	58	55
Manganese	ppm ASTM D5185m 0	2	<1	1
Magnesium	ppm ASTM D5185m 950	988	848	815
Calcium	ppm ASTM D5185m 1050	1232	1030	1119
Phosphorus	ppm ASTM D5185m 995	1092	914	874
Zinc	ppm ASTM D5185m 1180	1325	1142	1080
Sulfur	ppm ASTM D5185m 2600	3352	3389	2507

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	9	8	8
Sodium	ppm ASTM D5185m	6	7	2
Potassium	ppm ASTM D5185m >20	23	6	18

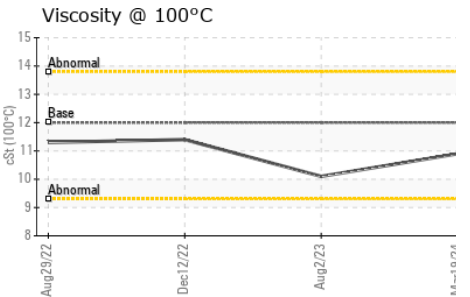
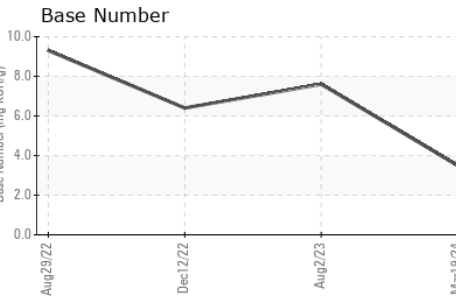
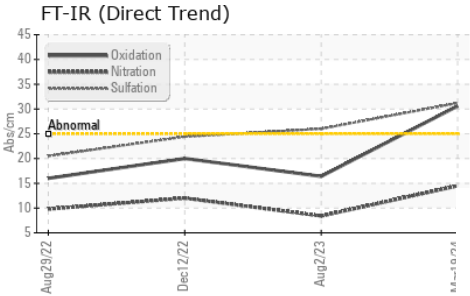
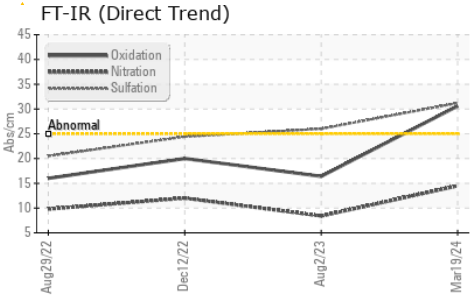
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	1.5	0.5	0.5
Nitration	Abs/cm *ASTM D7624 >20	14.5	8.4	12.0
Sulfation	Abs/.1mm *ASTM D7415 >30	31.2	26.0	24.4

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	30.6	16.4	20.0
Base Number (BN)	mg KOH/g ASTM D2896	3.5	7.6	6.4

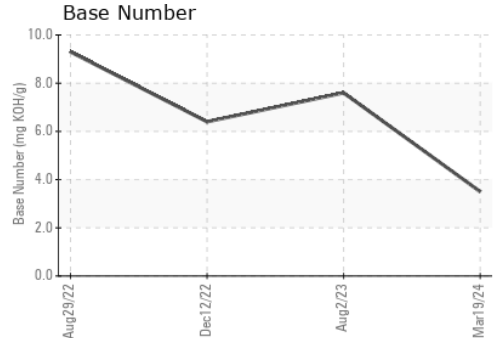
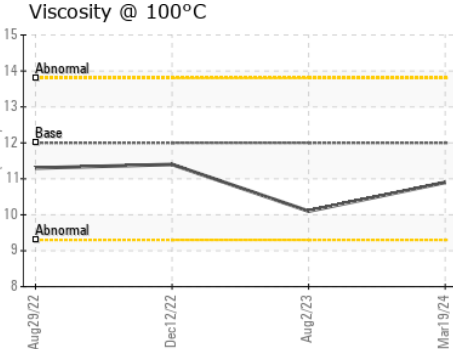
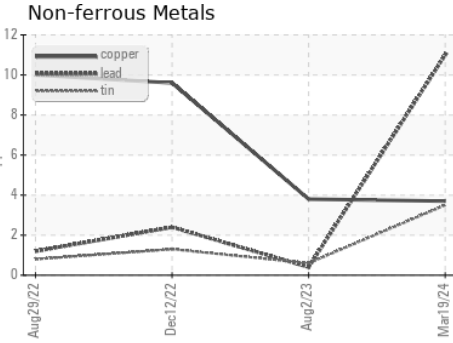
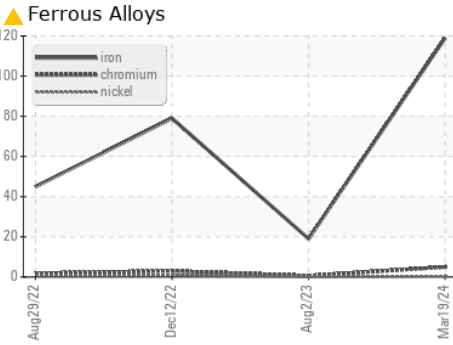
OIL ANALYSIS REPORT



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	10.9	10.1	11.4

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0116428
Lab Number : 06136845
Unique Number : 10956310
Test Package : FLEET

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

Contact: Sonny Boucher
 sboucher@transervice.com

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)

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