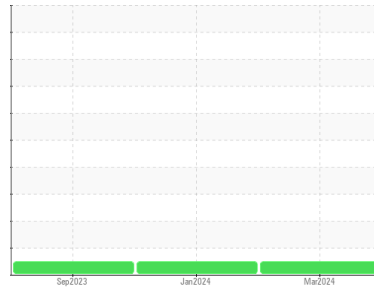


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
(89889X) Walgreens - Tractor
 Machine Id
[Walgreens - Tractor] 136A624090
 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

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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		PCA0093944	PCA0094049	PCA0093869
Sample Date	Client Info		18 Mar 2024	16 Jan 2024	14 Sep 2023
Machine Age	mls	Client Info	135987	98351	27422
Oil Age	mls	Client Info	135987	98351	0
Oil Changed	Client Info		Not Chngd	N/A	Not Chngd
Sample Status			NORMAL	NORMAL	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	24	17	43
Chromium	ppm	ASTM D5185m >5	3	2	4
Nickel	ppm	ASTM D5185m >2	0	0	2
Titanium	ppm	ASTM D5185m	2	3	<1
Silver	ppm	ASTM D5185m >3	<1	<1	<1
Aluminum	ppm	ASTM D5185m >30	67	26	62
Lead	ppm	ASTM D5185m >30	0	2	0
Copper	ppm	ASTM D5185m >150	39	152	139
Tin	ppm	ASTM D5185m >5	1	2	5
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	9	5	32
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 50	69	56	44
Manganese	ppm	ASTM D5185m 0	<1	<1	4
Magnesium	ppm	ASTM D5185m 950	939	938	606
Calcium	ppm	ASTM D5185m 1050	1168	1107	1790
Phosphorus	ppm	ASTM D5185m 995	978	1023	812
Zinc	ppm	ASTM D5185m 1180	1238	1261	990
Sulfur	ppm	ASTM D5185m 2600	2536	2601	2233

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	6	4	8
Sodium	ppm	ASTM D5185m	2	1	6
Potassium	ppm	ASTM D5185m >20	120	51	125

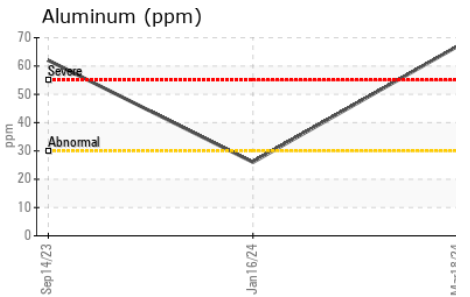
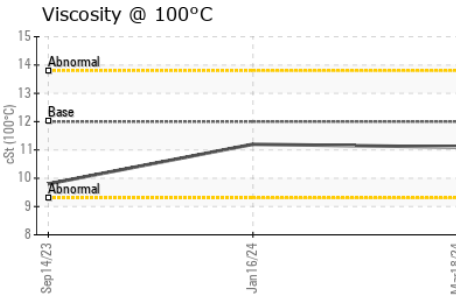
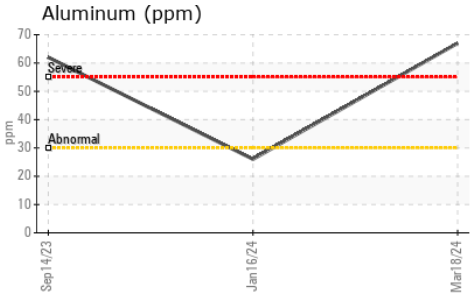
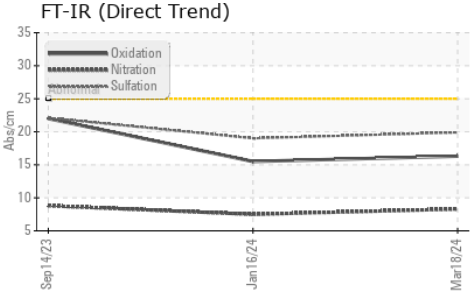
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.5	0.4	0.4
Nitration	Abs/cm	*ASTM D7624 >20	8.3	7.5	8.8
Sulfation	Abs/.1mm	*ASTM D7415 >30	19.9	19.0	22.1

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	16.3	15.5	22.0
Base Number (BN)	mg KOH/g	ASTM D2896	7.2	7.6	7.7

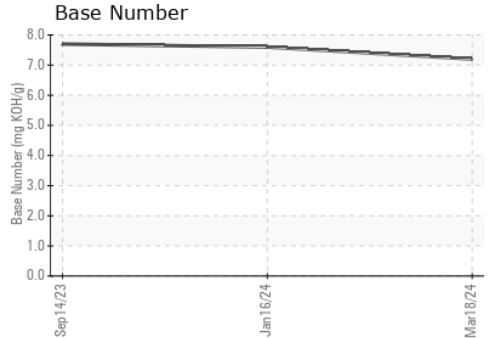
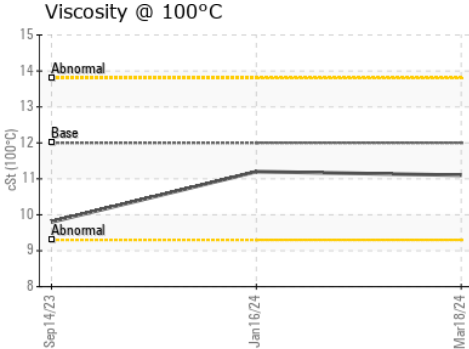
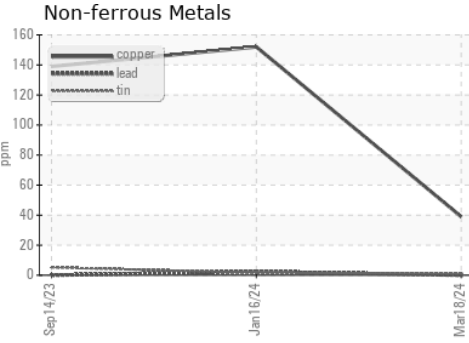
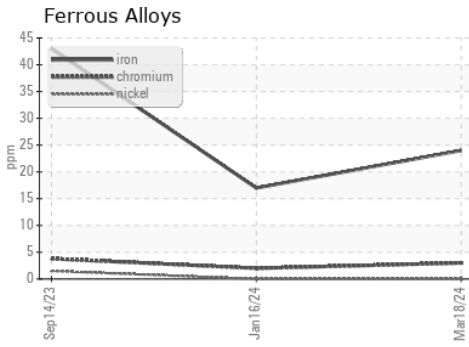
OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.1	11.2

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0093944
Lab Number : 06157298
Unique Number : 10992721
Test Package : FLEET

Transervice - Shop 1372 - Berkeley-Moreno Valley
 17500 Perris Blvd.
 Moreno Valley, CA
 US 92551
 Contact: Ryan Cruz
 rcruz@transervice.com
 T: (951)924-7131
 F: (951)924-7151

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)