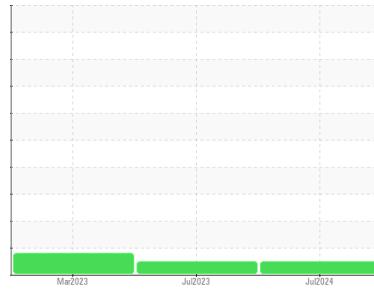


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
(50956Z) Walgreens - Tractor
 Machine Id
[Walgreens - Tractor] 136A63289
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (40 QTS)

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		PCA0120784	PCA0094365	PCA0094356
Sample Date	Client Info		01 Jul 2024	12 Jul 2023	29 Mar 2023
Machine Age	mls	Client Info	217584	0	0
Oil Age	mls	Client Info	60000	0	0
Oil Changed	Client Info		Changed	Changed	N/A
Sample Status			NORMAL	NORMAL	ABNORMAL

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	36	39	80
Chromium	ppm	ASTM D5185m >5	2	5	8
Nickel	ppm	ASTM D5185m >2	0	<1	<1
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m >3	<1	0	0
Aluminum	ppm	ASTM D5185m >30	23	48	149
Lead	ppm	ASTM D5185m >30	0	0	<1
Copper	ppm	ASTM D5185m >150	44	145	▲ 181
Tin	ppm	ASTM D5185m >5	0	<1	3
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	3	2	27
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 50	63	62	45
Manganese	ppm	ASTM D5185m 0	<1	1	5
Magnesium	ppm	ASTM D5185m 950	895	856	527
Calcium	ppm	ASTM D5185m 1050	1156	1180	1876
Phosphorus	ppm	ASTM D5185m 995	926	916	695
Zinc	ppm	ASTM D5185m 1180	1140	1132	876
Sulfur	ppm	ASTM D5185m 2600	2319	2003	2206

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	8	7	11
Sodium	ppm	ASTM D5185m	3	0	9
Potassium	ppm	ASTM D5185m >20	51	120	361

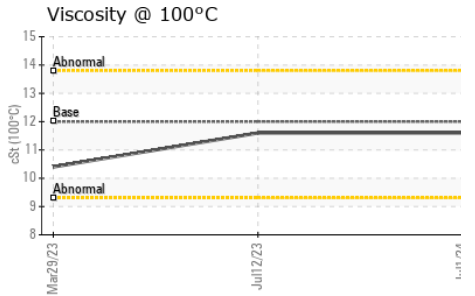
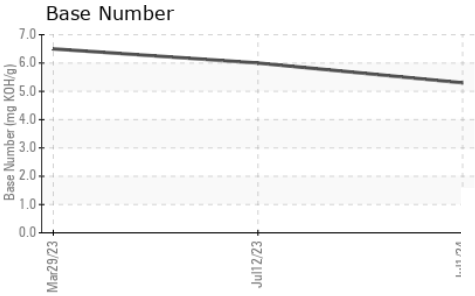
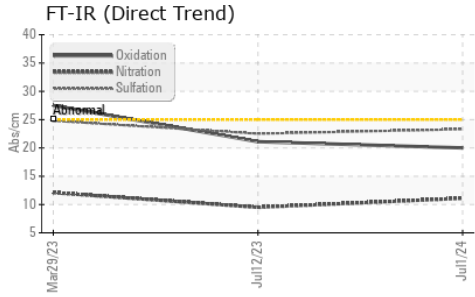
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	1.1	0.7	0.8
Nitration	Abs/cm	*ASTM D7624 >20	11.1	9.5	12.1
Sulfation	Abs/.1mm	*ASTM D7415 >30	23.3	22.5	24.8

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	20.0	21.1	27.5
Base Number (BN)	mg KOH/g	ASTM D2896	5.3	6.0	6.5

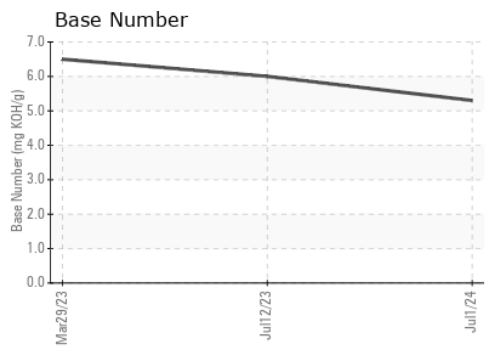
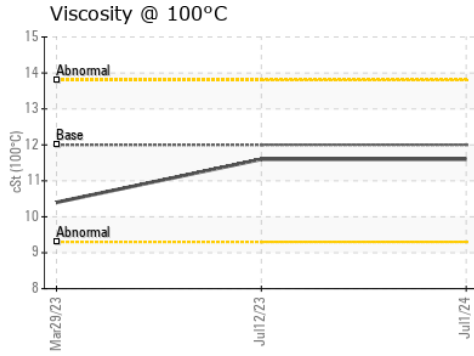
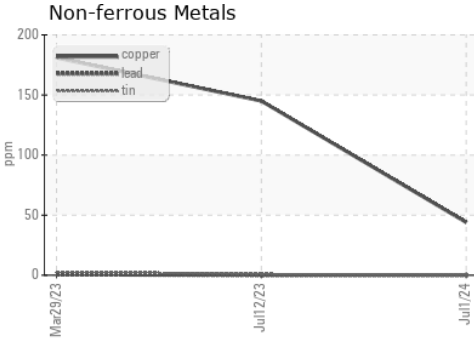
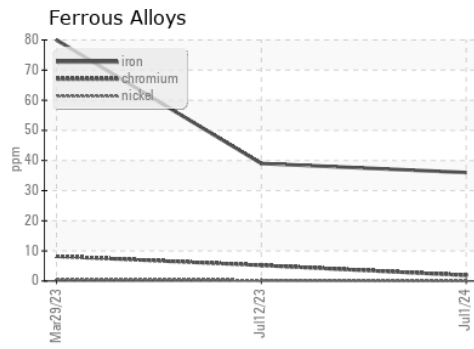
OIL ANALYSIS REPORT



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	11.6	10.4

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0120784 **Received** : 15 Jul 2024
Lab Number : 06235392 **Tested** : 15 Jul 2024
Unique Number : 11124226 **Diagnosed** : 15 Jul 2024 - Wes Davis
Test Package : FLEET

Transervice - Shop 1369 - Berkeley-Waxahachie
 710 Ovilla Road
 Waxahachie, TX
 US 75167
 Contact: Robert Beal
 rbeal@transervice.com
 T: (972)923-9928
 F: (972)923-9919

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)