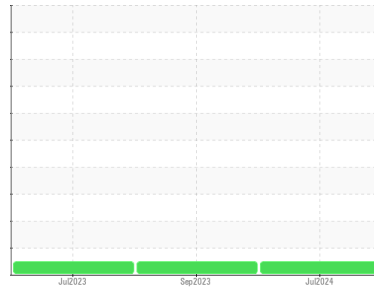


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
(59093Z) Walgreens - Tractor
 Machine Id
[Walgreens - Tractor] 136A624331
 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			PCA0129473	PCA0093865	PCA0093983
Sample Date	Client Info			03 Jul 2024	22 Sep 2023	11 Jul 2023
Machine Age	mls	Client Info		149067	55749	22955
Oil Age	mls	Client Info		0	22955	0
Oil Changed	Client Info			Not Changed	Not Changed	Not Changed
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	27	89	49
Chromium	ppm	ASTM D5185m	>5	2	6	2
Nickel	ppm	ASTM D5185m	>2	0	2	<1
Titanium	ppm	ASTM D5185m		2	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>30	24	55	14
Lead	ppm	ASTM D5185m	>30	<1	0	0
Copper	ppm	ASTM D5185m	>150	43	175	152
Tin	ppm	ASTM D5185m	>5	0	6	4
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

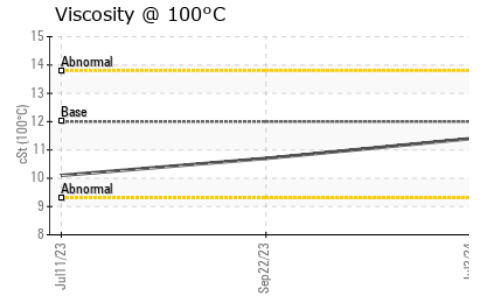
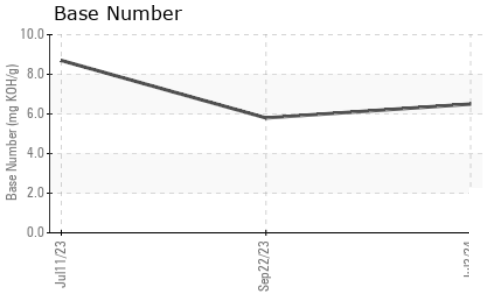
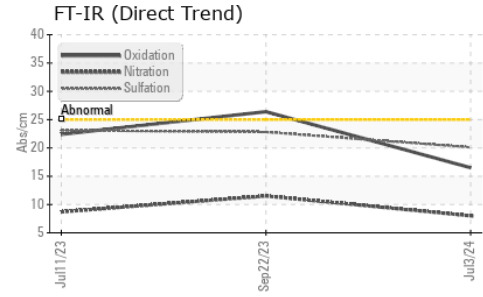
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	8	26	38
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	64	46	40
Manganese	ppm	ASTM D5185m	0	<1	6	4
Magnesium	ppm	ASTM D5185m	950	933	629	535
Calcium	ppm	ASTM D5185m	1050	1293	1915	1636
Phosphorus	ppm	ASTM D5185m	995	999	813	713
Zinc	ppm	ASTM D5185m	1180	1239	1024	885
Sulfur	ppm	ASTM D5185m	2600	2745	1977	2377

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	3	9	6
Sodium	ppm	ASTM D5185m		2	5	4
Potassium	ppm	ASTM D5185m	>20	51	133	43

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.8	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.0	11.5	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	22.8	23.1

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	26.4	22.4
Base Number (BN)	mg KOH/g	ASTM D2896		6.5	5.8	8.7

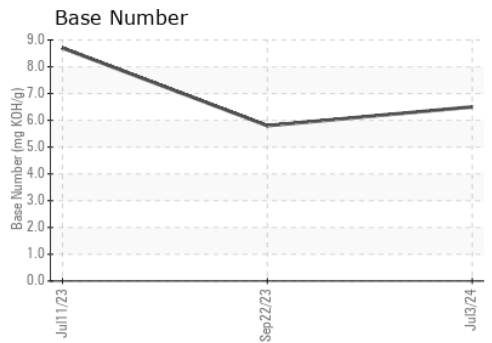
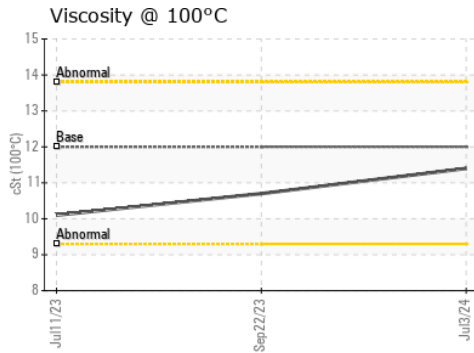
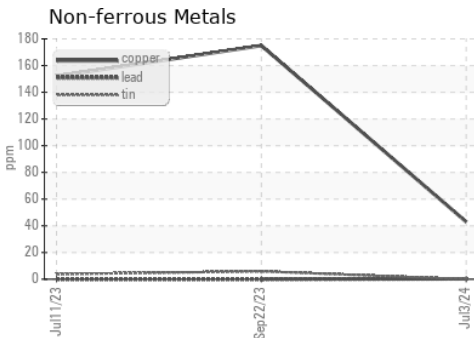
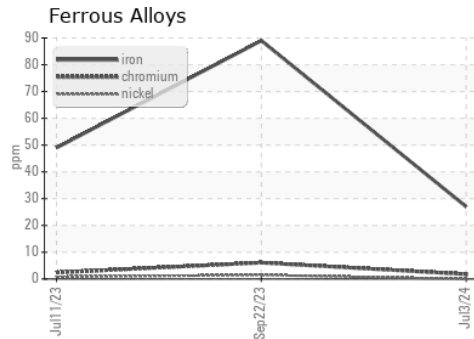
OIL ANALYSIS REPORT



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	11.4	10.7

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0129473
Lab Number : 06231010
Unique Number : 11114503
Test Package : FLEET

Received : 08 Jul 2024
Tested : 10 Jul 2024
Diagnosed : 10 Jul 2024 - Wes Davis

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)