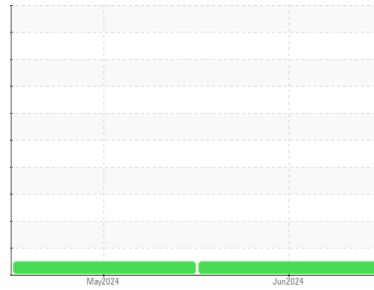


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL


Area
(72593Z) Walgreens - Tractor
 Machine Id
[Walgreens - Tractor] 136A624101
 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. No corrective action is recommended at this time. 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. No other contaminants were detected in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PCA0128591	PCA0118752	---
Sample Date	Client Info			14 Jun 2024	01 May 2024	---
Machine Age	mls	Client Info		57895	36176	---
Oil Age	mls	Client Info		57895	36176	---
Oil Changed	Client Info			Changed	Not Changd	---
Sample Status				NORMAL	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.2	NEG	NEG	---
Glycol	WC Method			NEG	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	88	53	---
Chromium	ppm	ASTM D5185m	>5	8	4	---
Nickel	ppm	ASTM D5185m	>2	2	2	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	<1	<1	---
Aluminum	ppm	ASTM D5185m	>30	225	133	---
Lead	ppm	ASTM D5185m	>30	<1	<1	---
Copper	ppm	ASTM D5185m	>150	184	180	---
Tin	ppm	ASTM D5185m	>5	10	10	---
Vanadium	ppm	ASTM D5185m		0	0	---
Cadmium	ppm	ASTM D5185m		0	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	26	39	---
Barium	ppm	ASTM D5185m	0	0	0	---
Molybdenum	ppm	ASTM D5185m	50	43	43	---
Manganese	ppm	ASTM D5185m	0	8	7	---
Magnesium	ppm	ASTM D5185m	950	542	488	---
Calcium	ppm	ASTM D5185m	1050	1776	1702	---
Phosphorus	ppm	ASTM D5185m	995	730	729	---
Zinc	ppm	ASTM D5185m	1180	940	876	---
Sulfur	ppm	ASTM D5185m	2600	1874	2222	---

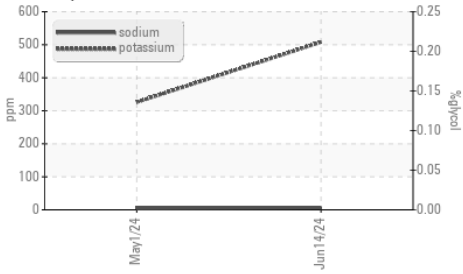
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	10	8	---
Sodium	ppm	ASTM D5185m		6	4	---
Potassium	ppm	ASTM D5185m	>20	508	326	---
Fuel	%	ASTM D3524	>5	<1.0	<1.0	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	10.9	8.8	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.8	22.4	---

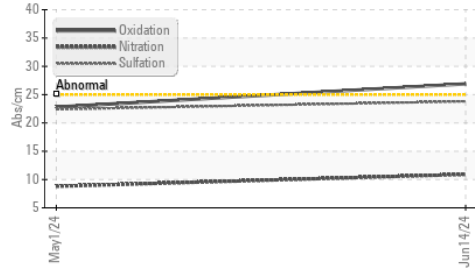
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.9	22.8	---
Base Number (BN)	mg KOH/g	ASTM D2896		6.1	7.5	---

OIL ANALYSIS REPORT

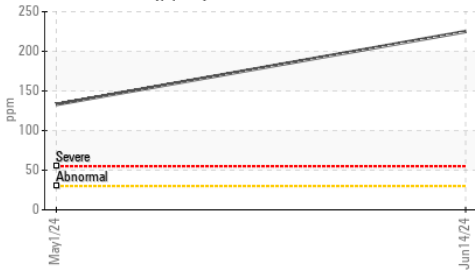
Glycol Contamination



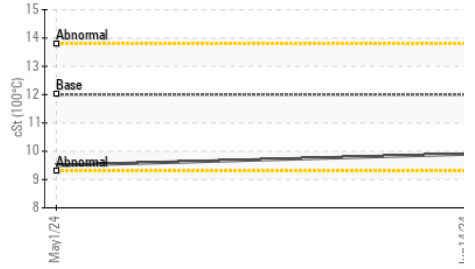
FT-IR (Direct Trend)



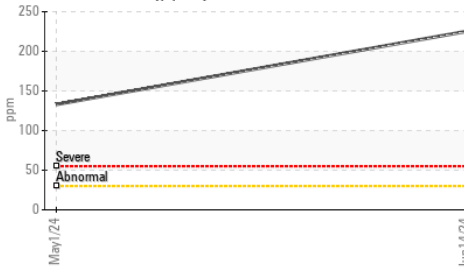
Aluminum (ppm)



Viscosity @ 100°C



Aluminum (ppm)

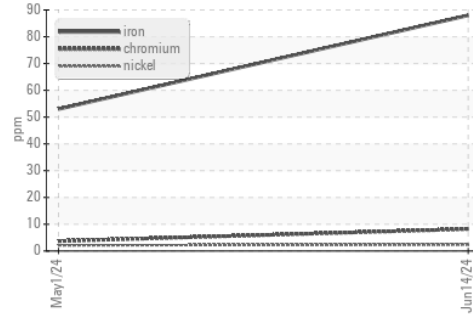


PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

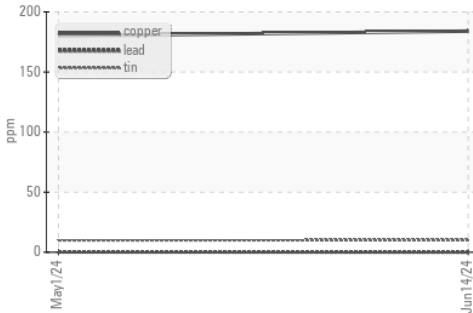
PARAMETER	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	9.9	9.5

GRAPHS

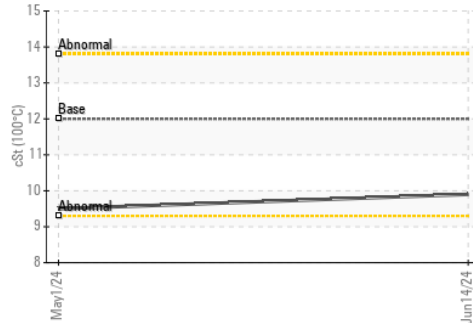
Ferrous Alloys



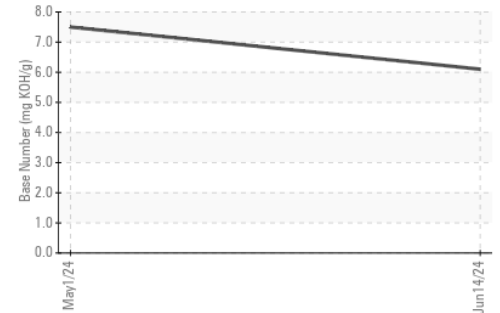
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : PCA0128591

Lab Number : 06216422

Unique Number : 11089286

Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

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)

Received : 20 Jun 2024

Tested : 23 Jun 2024

Diagnosed : 23 Jun 2024 - Don Baldrige

Transervice - Shop 1364 - Berkeley-Mt. Vernon

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US 62864

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