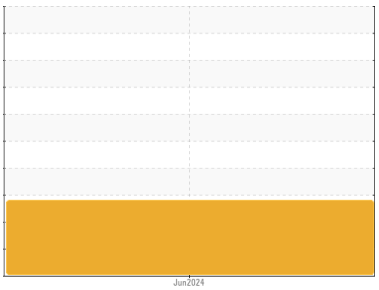
OIL DIAGNOSTICS

OIL ANALYSIS REPORT

Sample Rating Trend



GLYCOL

Area
(72586Z) Walgreens - Tractor
Machine Id
[Walgreens - Tractor] 136A624025
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (11 GAL)

DIAGNOSIS

Recommendation
No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear
The copper level is abnormal. The tin level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in.

Contamination
Sodium and/or potassium levels are high. Test for glycol is negative.

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		**PCA0128189**	---	---
Sample Date		Client Info		**18 Jun 2024**	---	---
Machine Age	mls	Client Info		**29788**	---	---
Oil Age	mls	Client Info		**29788**	---	---
Oil Changed		Client Info		**Not Changd**	---	---
Sample Status				**ABNORMAL**	---	---

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	**96**	---	---
Chromium	ppm	ASTM D5185m	>5	**7**	---	---
Nickel	ppm	ASTM D5185m	>2	**5**	---	---
Titanium	ppm	ASTM D5185m		**<1**	---	---
Silver	ppm	ASTM D5185m	>3	**1**	---	---
Aluminum	ppm	ASTM D5185m	>30	**76**	---	---
Lead	ppm	ASTM D5185m	>30	**0**	---	---
Copper	ppm	ASTM D5185m	>150	▲ **347**	---	---
Tin	ppm	ASTM D5185m	>5	▲ **25**	---	---
Vanadium	ppm	ASTM D5185m		**<1**	---	---
Cadmium	ppm	ASTM D5185m		**0**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	**32**	---	---
Barium	ppm	ASTM D5185m	0	**0**	---	---
Molybdenum	ppm	ASTM D5185m	50	**43**	---	---
Manganese	ppm	ASTM D5185m	0	**7**	---	---
Magnesium	ppm	ASTM D5185m	950	**595**	---	---
Calcium	ppm	ASTM D5185m	1050	**1852**	---	---
Phosphorus	ppm	ASTM D5185m	995	**771**	---	---
Zinc	ppm	ASTM D5185m	1180	**947**	---	---
Sulfur	ppm	ASTM D5185m	2600	**2482**	---	---

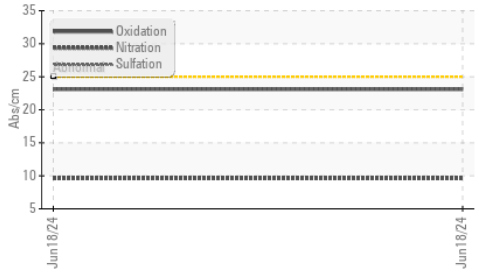
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	**10**	---	---
Sodium	ppm	ASTM D5185m		**11**	---	---
Potassium	ppm	ASTM D5185m	>20	▲ **200**	---	---
Fuel	%	ASTM D3524	>5	**<1.0**	---	---
Glycol	%	*ASTM D2982		**NEG**	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	**0.7**	---	---
Nitration	Abs/cm	*ASTM D7624	>20	**9.6**	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	**23.1**	---	---

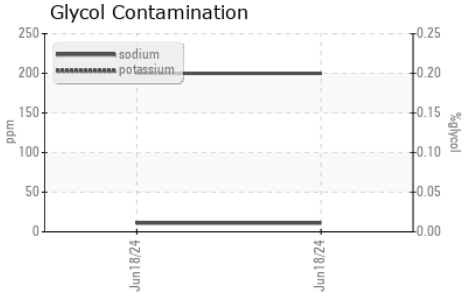
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**23.1**	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		**7.8**	---	---

OIL ANALYSIS REPORT

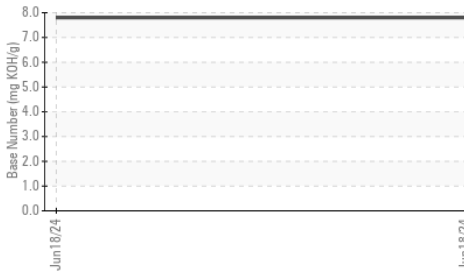
FT-IR (Direct Trend)



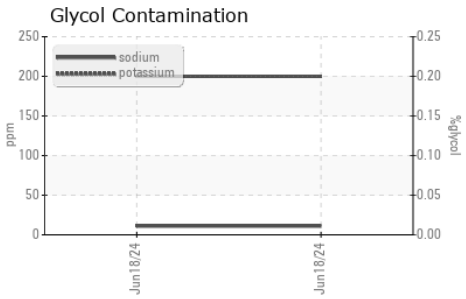
Glycol Contamination



Base Number



Glycol Contamination

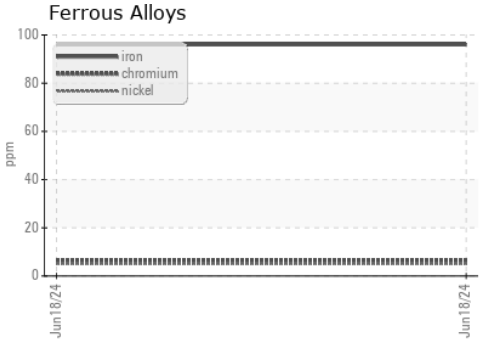


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Precipitate	scalar	*Visual	NONE	**NONE**	---	---
Silt	scalar	*Visual	NONE	**NONE**	---	---
Debris	scalar	*Visual	NONE	**NONE**	---	---
Sand/Dirt	scalar	*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**	---	---

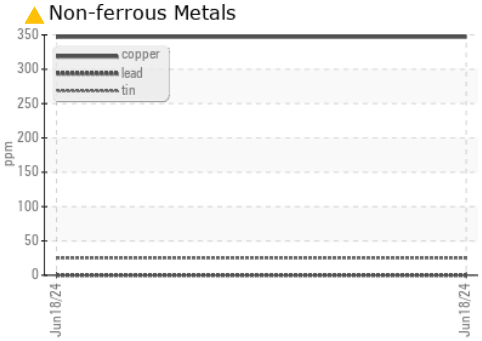
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	**9.2**	---	---

GRAPHS

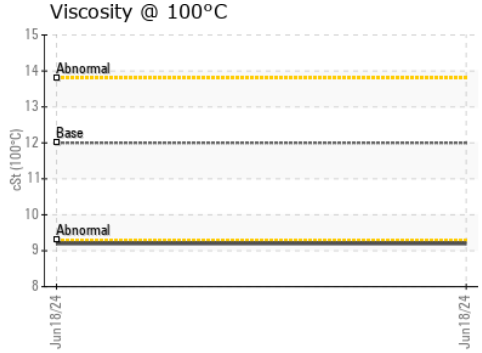
Ferrous Alloys



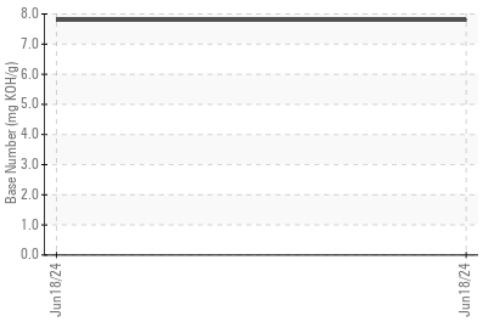
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0128189 **Received** : 27 Jun 2024
Lab Number : 06222989 **Tested** : 01 Jul 2024
Unique Number : 11101186 **Diagnosed** : 01 Jul 2024 - Jonathan Hester
Test Package : FLEET (Additional Tests: FuelDilution, Glycol, 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)

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