



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
2227121
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON UHP 5W30 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0124255	PCA0101156	---
Sample Date		Client Info		22 May 2024	09 Sep 2023	---
Machine Age	mls	Client Info		146342	25733	---
Oil Age	mls	Client Info		20000	20000	---
Filter Age	mls	Client Info		20000	20000	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	27	35	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>4	1	<1	---
Titanium	ppm	ASTM D5185m		23	<1	---
Silver	ppm	ASTM D5185m	>3	<1	13	---
Aluminum	ppm	ASTM D5185m	>20	4	25	---
Lead	ppm	ASTM D5185m	>40	<1	0	---
Copper	ppm	ASTM D5185m	>330	57	88	---
Tin	ppm	ASTM D5185m	>15	2	4	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

There is no indication of any contamination in the oil.

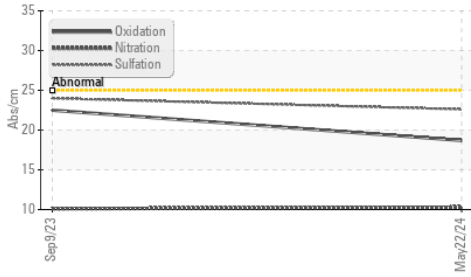
Silicon	ppm	ASTM D5185m	>25	8	▲ 49	---
Potassium	ppm	ASTM D5185m	>20	7	69	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.4	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	10.3	10.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.6	24.0	---
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	---

FLUID CONDITION

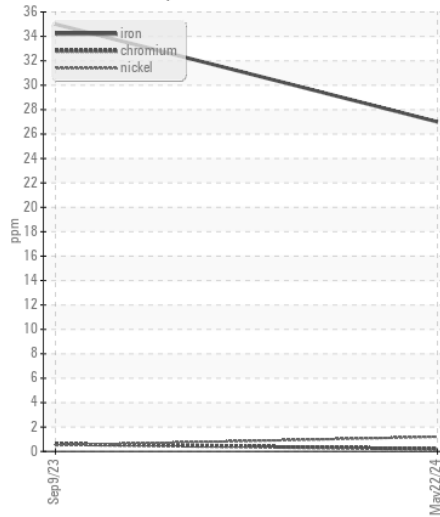
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		3	4	---
Boron	ppm	ASTM D5185m	0	10	131	---
Barium	ppm	ASTM D5185m	0	0	0	---
Molybdenum	ppm	ASTM D5185m	64	46	113	---
Manganese	ppm	ASTM D5185m	0	<1	3	---
Magnesium	ppm	ASTM D5185m	1160	841	680	---
Calcium	ppm	ASTM D5185m	820	1304	1489	---
Phosphorus	ppm	ASTM D5185m	1160	973	674	---
Zinc	ppm	ASTM D5185m	1260	1252	830	---
Sulfur	ppm	ASTM D5185m	3000	3103	2250	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.7	22.5	---
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	5.9	7.4	---
Visc @ 100°C	cSt	ASTM D445	11.9	10.8	9.4	---

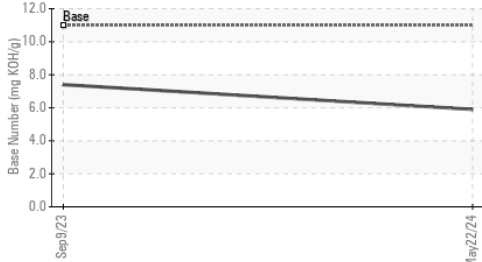
FT-IR (Direct Trend)



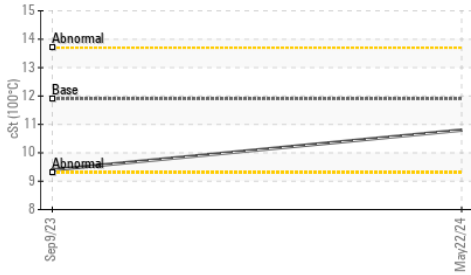
Ferrous Alloys



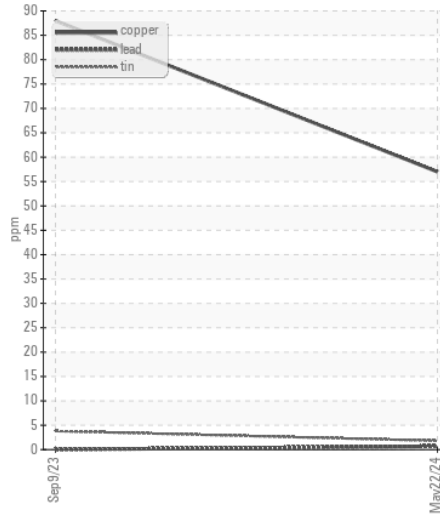
Base Number



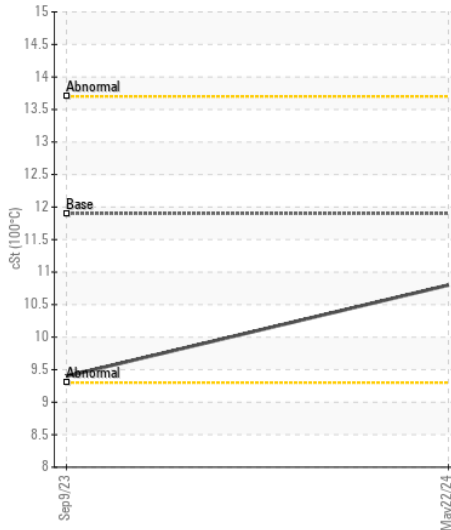
Viscosity @ 100°C



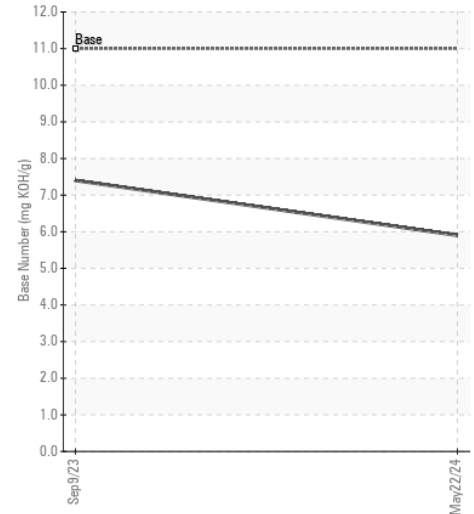
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

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

Sample No. : PCA0124255

Lab Number : 06188959

Unique Number : 11045711

Test Package : FLEET

Received : 23 May 2024

Tested : 24 May 2024

Diagnosed : 24 May 2024 - Wes Davis

PERDUE FARMS - SALISBURY

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SALISBURY, MD

US 21802

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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)