



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
V1065
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON HP 15W40 (--- GAL)

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		PCA0120963	PCA0114453	---
Sample Date		Client Info		08 Jul 2024	11 Mar 2024	---
Machine Age	mls	Client Info		66881	50465	---
Oil Age	mls	Client Info		16416	22656	---
Filter Age	mls	Client Info		16416	22656	---
Oil Changed		Client Info		Changed	N/A	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	14	25	---
Chromium	ppm	ASTM D5185m	>20	0	1	---
Nickel	ppm	ASTM D5185m	>4	0	<1	---
Titanium	ppm	ASTM D5185m		2	1	---
Silver	ppm	ASTM D5185m	>3	0	<1	---
Aluminum	ppm	ASTM D5185m	>20	9	21	---
Lead	ppm	ASTM D5185m	>40	0	<1	---
Copper	ppm	ASTM D5185m	>330	1	6	---
Tin	ppm	ASTM D5185m	>15	0	1	---
Vanadium	ppm	ASTM D5185m		0	<1	---
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.

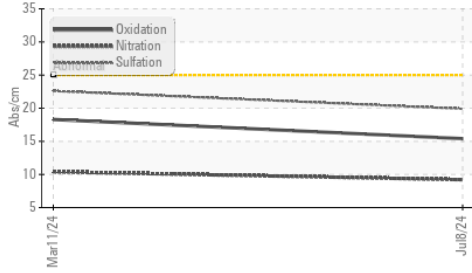
Silicon	ppm	ASTM D5185m	>25	4	7	---
Potassium	ppm	ASTM D5185m	>20	13	41	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.4	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	9.2	10.4	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	22.6	---
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

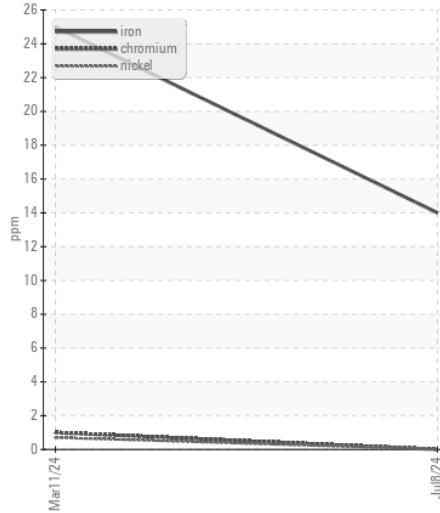
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		2	0	---
Boron	ppm	ASTM D5185m		5	7	---
Barium	ppm	ASTM D5185m		0	<1	---
Molybdenum	ppm	ASTM D5185m		54	53	---
Manganese	ppm	ASTM D5185m		<1	2	---
Magnesium	ppm	ASTM D5185m		905	901	---
Calcium	ppm	ASTM D5185m		1120	1200	---
Phosphorus	ppm	ASTM D5185m		974	1061	---
Zinc	ppm	ASTM D5185m		1154	1172	---
Sulfur	ppm	ASTM D5185m		3309	3049	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	18.3	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.4	5.1	---
Visc @ 100°C	cSt	ASTM D445	15.6	13.5	12.9	---

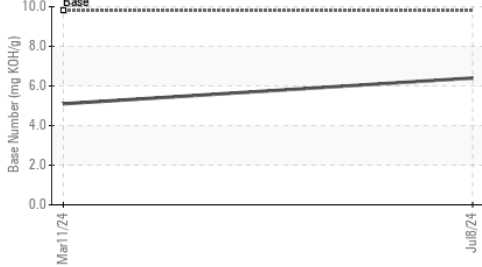
FT-IR (Direct Trend)



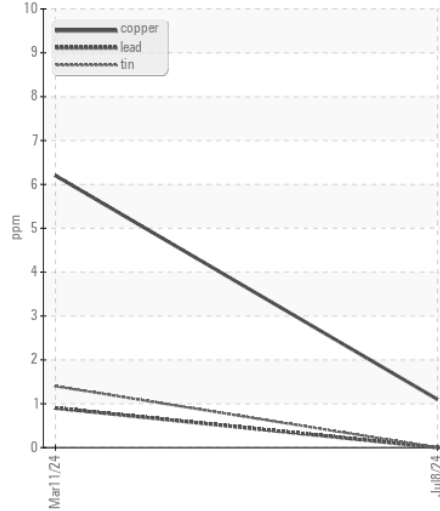
Ferrous Alloys



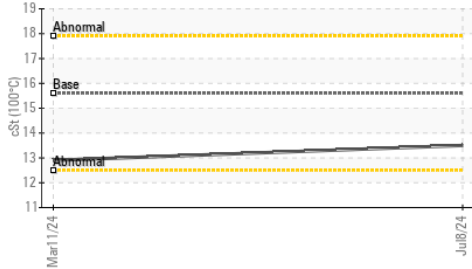
Base Number



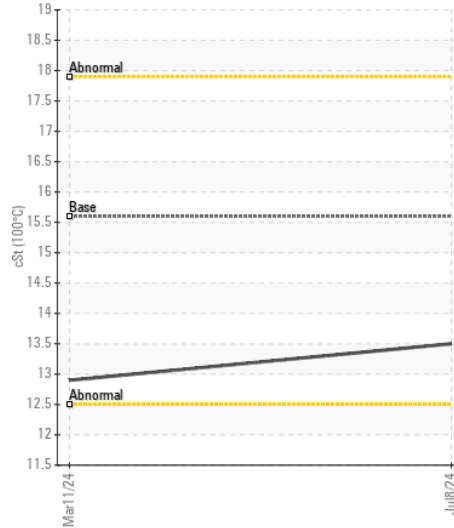
Non-ferrous Metals



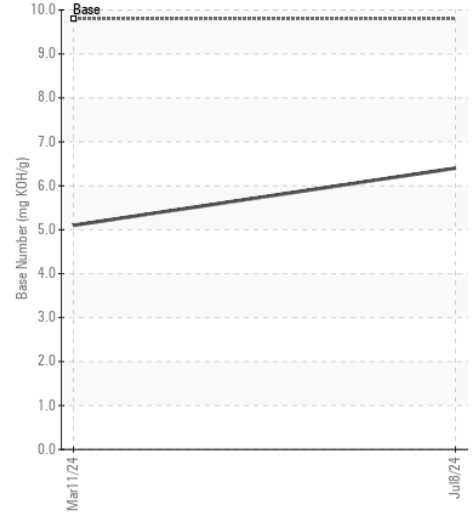
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0120963 **Received** : 19 Jul 2024
Lab Number : 06241484 **Tested** : 20 Jul 2024
Unique Number : 11130318 **Diagnosed** : 20 Jul 2024 - Wes Davis
Test Package : FLEET

TROIL ENTERPRISES
 2485 E STATE RD
 TRENTON, NJ
 US 08619
 Contact: JOHN RUBLE

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)

T:
F: