



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
NWW GREENWOOD

Machine Id
DT793

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 10W30 (38 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0102327	PCA0102392	---
Sample Date		Client Info		09 May 2024	04 Dec 2023	---
Machine Age	mls	Client Info		162238	139124	---
Oil Age	mls	Client Info		0	25000	---
Filter Age	mls	Client Info		0	25000	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	21	53	---
Chromium	ppm	ASTM D5185m	>4	<1	3	---
Nickel	ppm	ASTM D5185m	>2	0	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>25	7	11	---
Lead	ppm	ASTM D5185m	>45	0	0	---
Copper	ppm	ASTM D5185m	>85	<1	5	---
Tin	ppm	ASTM D5185m	>4	<1	<1	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

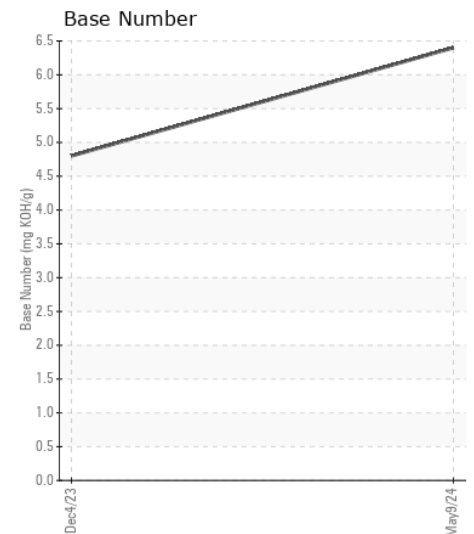
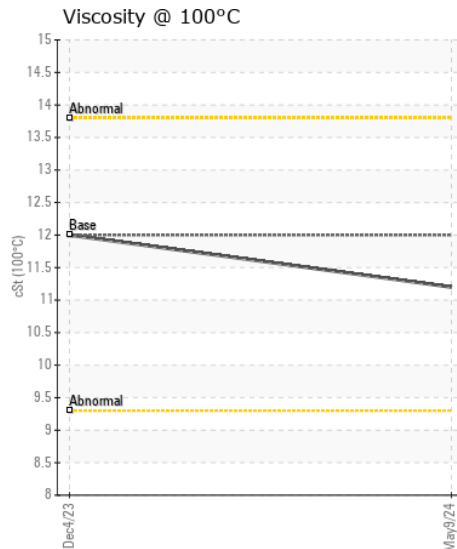
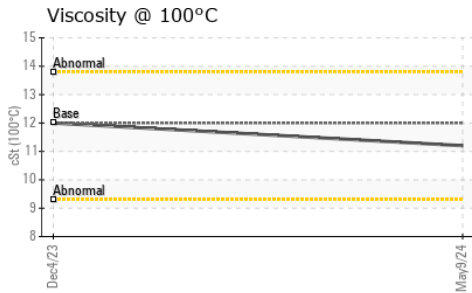
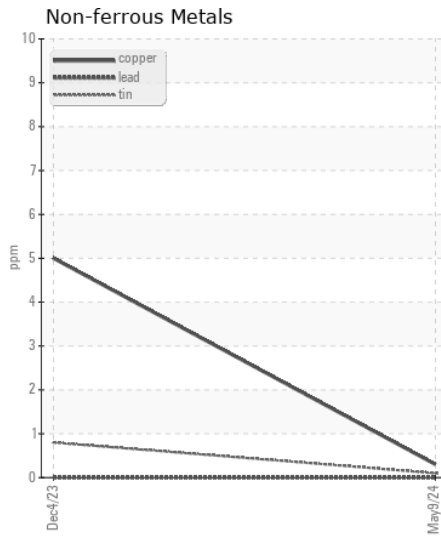
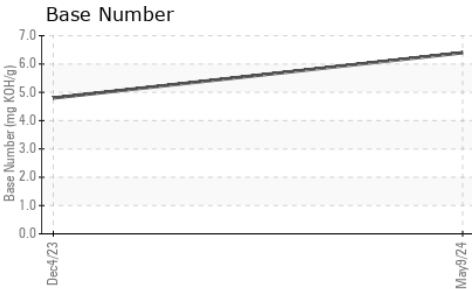
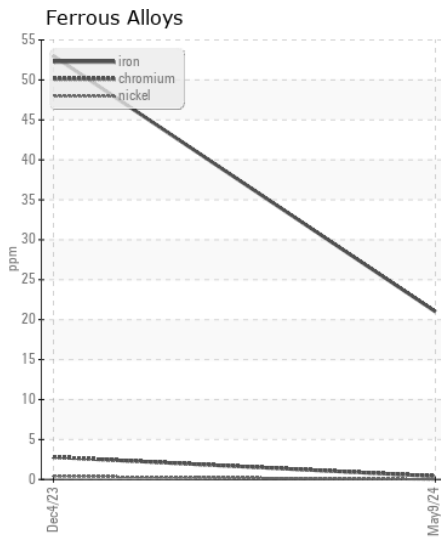
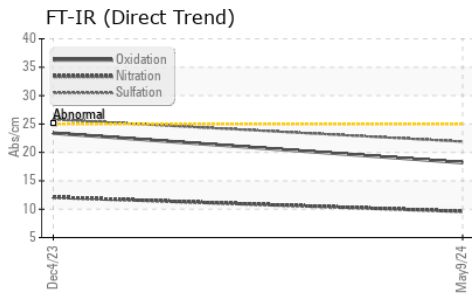
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	6	9	---
Potassium	ppm	ASTM D5185m	>20	6	15	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.6	1	---
Nitration	Abs/cm	*ASTM D7624	>20	9.6	12.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	25.8	---
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	2	---
Boron	ppm	ASTM D5185m	2	3	4	---
Barium	ppm	ASTM D5185m	0	0	0	---
Molybdenum	ppm	ASTM D5185m	50	65	68	---
Manganese	ppm	ASTM D5185m	0	<1	1	---
Magnesium	ppm	ASTM D5185m	950	920	982	---
Calcium	ppm	ASTM D5185m	1050	1173	1205	---
Phosphorus	ppm	ASTM D5185m	995	1077	1075	---
Zinc	ppm	ASTM D5185m	1180	1266	1339	---
Sulfur	ppm	ASTM D5185m	2600	3195	2478	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.2	23.4	---
Base Number (BN)	mg KOH/g	ASTM D2896		6.4	4.8	---
Visc @ 100°C	cSt	ASTM D445	12.00	11.2	12.0	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0102327
Lab Number : 06175298
Unique Number : 11021351
Test Package : FLEET
Received : 10 May 2024
Tested : 13 May 2024
Diagnosed : 13 May 2024 - Wes Davis

NW WHITE & CO - GREENWOOD DIVISION
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 GREENWOOD, SC
 US 29149
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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)