

# **OIL ANALYSIS REPORT**

Sample Rating Trend



**DT670** Component

Diesel Engine

Machine Id

# PETRO CANADA DURON SHP 10W30 (--- QTS)

## DIAGNOSIS

## Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

## Contamination

There is no indication of any contamination in the

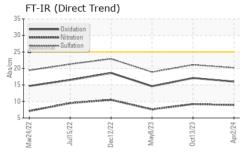
## **Fluid Condition**

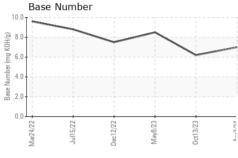
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

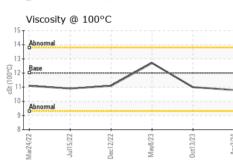
Q15)		Mar2022	Jul2022 Dec2023	2 May2023 Oct2023	Apr2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0111568	PCA0101835	PCA0095224
Sample Date		Client Info		02 Apr 2024	13 Oct 2023	08 May 2023
Machine Age	mls	Client Info		0	0	0
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	7	11	7
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	5	5	4
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	7	6	8
Barium	ppm	ASTM D5185m	0	0	3	0
Molybdenum	ppm	ASTM D5185m	50	68	70	76
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	950	910	916	989
Calcium	ppm	ASTM D5185m	1050	1148	1183	1214
Phosphorus	ppm	ASTM D5185m	995	998	1010	1116
Zinc	ppm	ASTM D5185m	1180	1182	1299	1354
Sulfur	ppm	ASTM D5185m	2600	3134	3361	3798
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	5	4
Sodium	ppm	ASTM D5185m		2	0	0
Potassium	ppm	ASTM D5185m	>20	2	8	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.4	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.9	9.2	7.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	21.1	18.9
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.0	17.1	14.6
Base Number (BN)	mg KOH/g	ASTM D2896		7.0	6.2	8.5
	0					

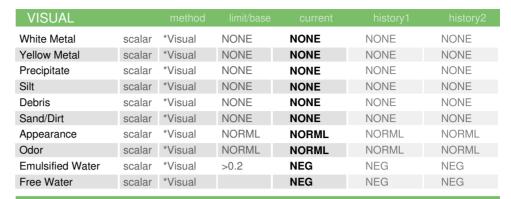


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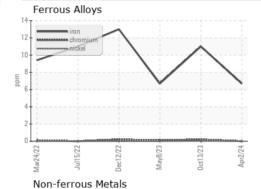




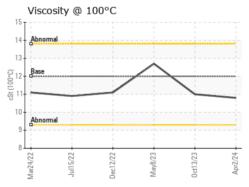


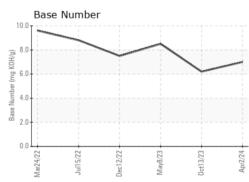
FLUID PROPE	EKITES	method	iimit/base		nistory i	nistory∠
Visc @ 100°C	cSt	ASTM D445	12.00	10.8	11.0	12.7

## **GRAPHS**



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Certificate 12367

Laboratory Sample No. Unique Number : 10992813

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0111568 Lab Number : 06157390

Test Package : FLEET

Received : 23 Apr 2024 **Tested** : 24 Apr 2024 Diagnosed

: 24 Apr 2024 - Wes Davis

**NW WHITE & CO - BEAUFORT DIVISION** 1491 YENMASSEE HIGHWAY

VARNVILLE, SC US 29944

Contact: VINCENT BULLOCK bullockvince514@gmail.com

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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