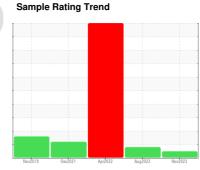


# **OIL ANALYSIS REPORT**

Machine Id **3724** Component **Diesel Engine** 

## PETRO CANADA DURON SHP 15W40 (8 GAL)





## 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

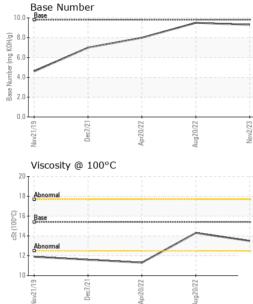
### **Fluid Condition**

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

AL)		Nov2019	Dec2021	Apr2022 Aug2022	Nov2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0098788	GFL0049658	GFL0044347	
Sample Date		Client Info		02 Nov 2023	20 Aug 2022	20 Apr 2022	
Machine Age	hrs	Client Info		10743	10743	10132	
Oil Age	hrs	Client Info		10743	611	490	
Oil Changed		Client Info		N/A	Changed	Changed	
Sample Status				NORMAL	ABNORMAL	SEVERE	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>3.0	<1.0	0.3	10.5	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>75	18	<u> </u>	123	
Chromium	ppm	ASTM D5185m	>5	<1	2	<u>^</u> 9	
Nickel	ppm	ASTM D5185m	>4	<1	0	2	
Titanium	ppm	ASTM D5185m	>2	<1	0	<1	
Silver	ppm	ASTM D5185m	>2	0	1	<1	
Aluminum	ppm	ASTM D5185m	>15	10	1	10	
Lead	ppm	ASTM D5185m	>25	0	<1	1	
Copper	ppm	ASTM D5185m	>100	0	3	9	
Tin	ppm	ASTM D5185m	>4	0	0	<1	
Antimony	ppm	ASTM D5185m					
Vanadium	ppm	ASTM D5185m		0	<1	0	
Cadmium	ppm	ASTM D5185m		0	<1	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	18	21	12	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	63	57	79	
Manganese	ppm	ASTM D5185m	0	<1	<1	3	
Magnesium	ppm	ASTM D5185m	1010	976	822	697	
Calcium	ppm	ASTM D5185m	1070	1106	1029	934	
Phosphorus	ppm	ASTM D5185m	1150	1060	856	763	
Zinc	ppm	ASTM D5185m	1270	1338	1086	992	
Sulfur	ppm	ASTM D5185m	2060	3415	2839	1922	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	7	4	24	
Sodium	ppm	ASTM D5185m		4	16	<u></u> 949	
Potassium	ppm	ASTM D5185m	>20	<1	3	<b>▲</b> 127	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	0.3	3.5	1.7	
Nitration	Abs/cm	*ASTM D7624	>20	4.9	8.9	15.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.3	24.2	29.8	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.3	13.5	27.6	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.3	9.5	8.0	
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# **OIL ANALYSIS REPORT**



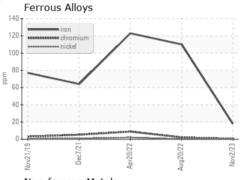
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2

13.5

14.3

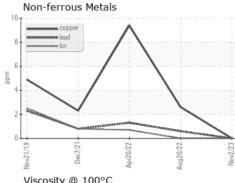
**11.3** 

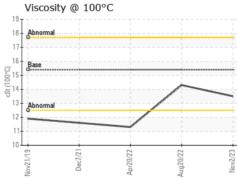
Visc @ 100°0	2
GRAPHS	5

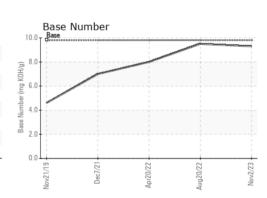


cSt

ASTM D445 15.4











Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: GFL0098788 : 05998813 : 10727173 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06 Nov 2023 : 07 Nov 2023

Diagnosed Diagnostician : Wes Davis GFL Environmental - 19DR - Deep Run/TriEast

2287 Leslie R Stroud Road Kinston, NC US 28504-9477 Contact: Spencer Liggon spencer.liggon@gflenv.com T: (800)207-6618

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)