

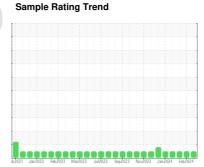
# **OIL ANALYSIS REPORT**



Area (61AC7A0) 2414 Component

**Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (--- LTR)





## 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

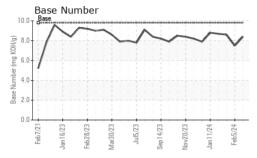
### **Fluid Condition**

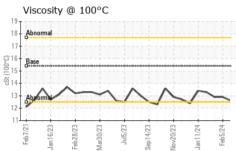
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

CAMPLE INFO		no otle e el	limait/le e e e	o mana	4 Feb2024	histow O	
SAMPLE INFO	RMATION		limit/base	current	history1	history2	
Sample Number		Client Info		GFL0113685	GFL0100450	GFL0100442	
Sample Date		Client Info		19 Feb 2024	05 Feb 2024	26 Jan 2024	
Machine Age	hrs	Client Info		20734	20632	20569	
Oil Age	hrs	Client Info		0	1152	1089	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINA	TION	method	limit/base	current	history1	history2	
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR META	ALS	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	10	5	4	
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>2	2	2	2	
Titanium	ppm	ASTM D5185m		0	<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>25	5	4	4	
Lead	ppm	ASTM D5185m	>40	0	0	<1	
Copper	ppm		>330	2	2	1	
Tin	ppm	ASTM D5185m	>15	0	0	0	
Vanadium	ppm	ASTM D5185m	>10	0	0	<1	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES	ррпп	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	4 0	5 0	6 0	
Barium	ppm	ASTM D5185m					
Molybdenum	ppm	ASTM D5185m	60	59	65	61	
Manganese	ppm	ASTM D5185m		<1	0	<1	
Magnesium	ppm	ASTM D5185m	1010	875	867	892	
Calcium	ppm	ASTM D5185m	1070	1066	1064	1031	
Phosphorus	ppm	ASTM D5185m	1150	990	991	998	
Zinc	ppm	ASTM D5185m	1270	1134	1161	1215	
Sulfur	ppm	ASTM D5185m	2060	2928	3073	3053	
CONTAMINA	NTS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	4	3	4	
Sodium	ppm	ASTM D5185m		2	<1	2	
Potassium	ppm	ASTM D5185m	>20	<1	3	4	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.5	0.3	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	7.5	6.7	6.1	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	17.5	17.5	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	13.7	13.6	
Base Number (BN		ASTM D2896	9.8	8.4	7.5	8.6	



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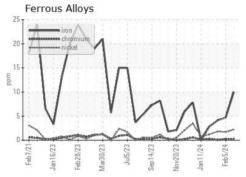


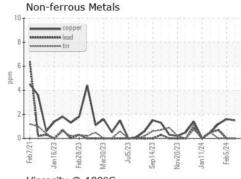


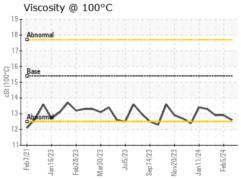
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

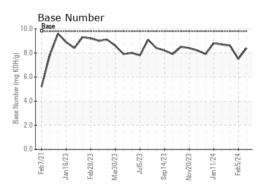
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	12.6	12.9	12.9	

## **GRAPHS**













Certificate L2367

Laboratory Sample No.

Test Package : FLEET

: GFL0113685 Lab Number : 06101365 Unique Number : 10899595

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

: 27 Feb 2024 **Tested** Diagnosed

: 28 Feb 2024 : 28 Feb 2024 - Wes Davis

GFL Environmental - 868 - Childersburg Fines Hauling (Alpine)

13737 Plant Rd Childersburg, AL US 35044

Contact: JONATHAN WILLIAMS jonathan.williams@gflenv.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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