

# **OIL ANALYSIS REPORT**

Sample Rating Trend





Machine Id **401029** 

Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- 0

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

Test for glycol is negative. There is no indication of any contamination in the oil.

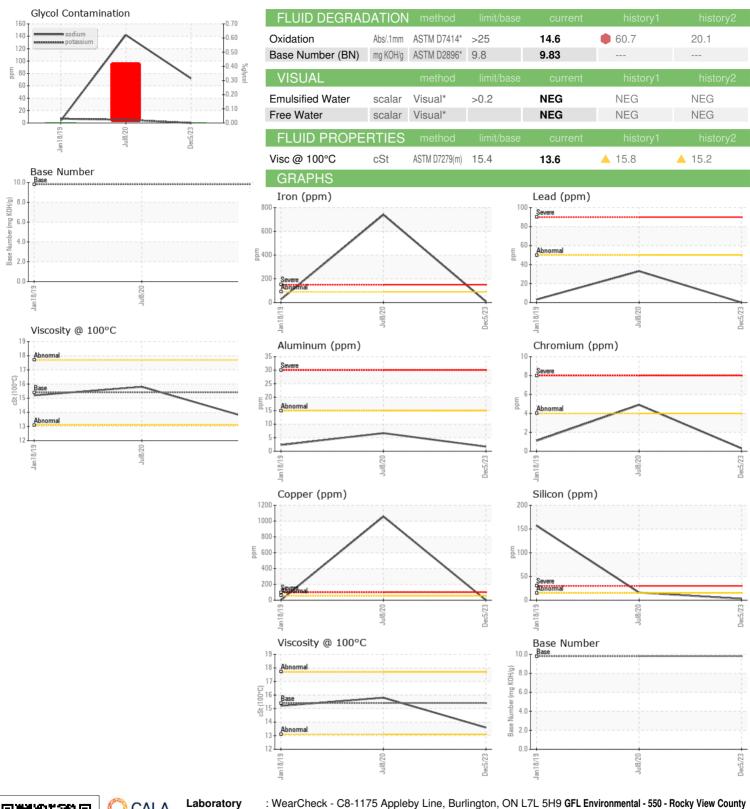
### **Fluid Condition**

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

GAL)		Jan	2019	Jul2020 Dec20	23	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0099589	PC0025954	PC0007081
Sample Date		Client Info		05 Dec 2023	08 Jul 2020	18 Jan 2019
Machine Age	kms	Client Info		539379	20344	17871
Oil Age	kms	Client Info		2685	500	400
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	SEVERE	SEVERE
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	8	<b>1</b> 740	26
Chromium	ppm	ASTM D5185(m)	>4	<1	<u>^</u> 5	1
Nickel	ppm	ASTM D5185(m)	>4	<1	1	0
Titanium	ppm	ASTM D5185(m)	>2	0	<1	0
Silver	ppm	ASTM D5185(m)	>2	<1	<1	0
Aluminum	ppm	ASTM D5185(m)	>15	2	7	2
Lead	ppm	ASTM D5185(m)	>50	0	33	3
Copper	ppm	ASTM D5185(m)	>55	<1	1058	1
Tin	ppm	ASTM D5185(m)	>4	0	<1	0
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	<1	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	2	<b>133</b>	71
Barium	ppm	ASTM D5185(m)	0	<1	3	0
Molybdenum	ppm	ASTM D5185(m)	60	58	27	18
Manganese	ppm	ASTM D5185(m)	0	0	<u></u> 18	<1
Magnesium	ppm	ASTM D5185(m)	1010	904	<u>^</u> 6	233
Calcium	ppm	ASTM D5185(m)	1070	997	<b>△</b> 54	2090
Phosphorus	ppm	ASTM D5185(m)	1150	954	948	1016
Zinc	ppm	ASTM D5185(m)	1270	1136	<u>^</u> 62	1260
Sulfur	ppm	ASTM D5185(m)	2060	2495	<b>△</b> 366	2997
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	3	16	<b>157</b>
Sodium	ppm	ASTM D5185(m)		72	<u>▲</u> 142	4
Potassium	ppm	ASTM D5185(m)	>20	0	<u> 5</u>	7
Glycol	%	ASTM D7922*		0.0	0.428	0.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.2	0	2.6
Nitration	Abs/cm	ASTM D7624*	>20	6.3	8.4	11.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.1	▲ 52.8	28.1



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number Test Package : MOB 2

: 02603004

: GFL0099589 : 5696089

Received Diagnosed Diagnostician

: 14 Dec 2023 : 15 Dec 2023 : Wes Davis

220 Carmek Blvd Rocky View County, AB **CA T1X 1X1** 

Contact: GFL Calgary calgarymaintenance@gflenv.com

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

F: (403)369-6163

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