

# **OIL ANALYSIS REPORT**



NORMAL



Machine Id **9132** Component **Diesel Engine** 

# PETRO CANADA DURON SHP 15W40 (--- 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

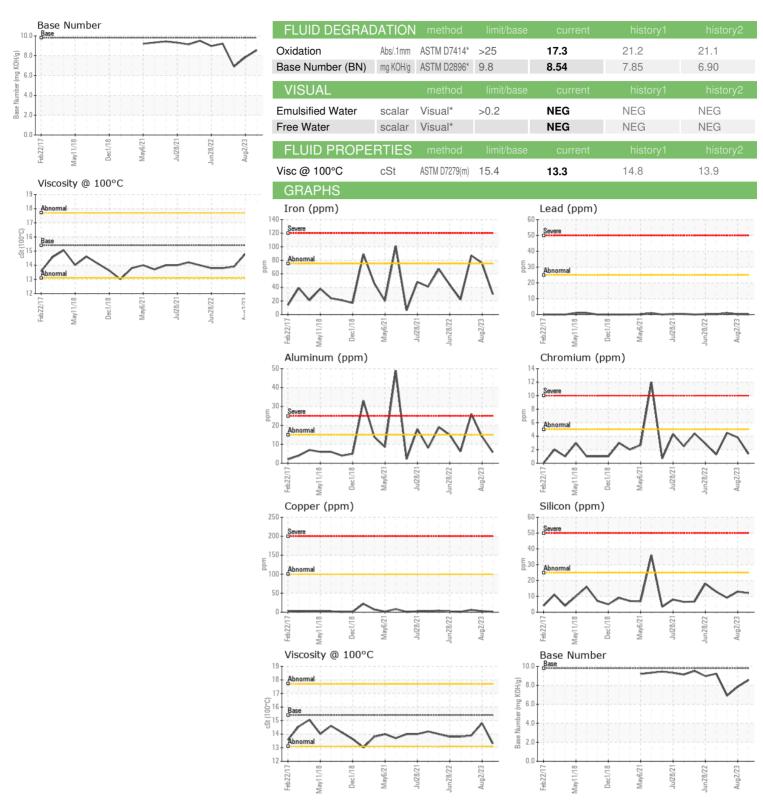
## **Fluid Condition**

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

GAL)		eb2017 Ma	y2018 Dec2018 Ma	y2021 Jul2021 Jun2022	Aug2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date Machine Age Oil Age Oil Changed Sample Status	hrs hrs	Client Info Client Info Client Info Client Info Client Info		GFL0091613 12 Sep 2023 11454 300 Changed NORMAL	GFL0084304 02 Aug 2023 11129 500 Changed ABNORMAL	GFL0070698 21 Mar 2023 20028 600 Changed SEVERE
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel Glycol		WC Method WC Method	>3.0	<1.0 NEG	<1.0 0.0	<1.0 0.0
WEAR METALS	5	method	limit/base	current	history1	history2
Iron Chromium Nickel	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>75 >5 >4	30 1 <1	▲ 76 4 1	▲ 87 4 2
Titanium Silver Aluminum	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>2 >15	0 0 6	<1 0 14	<1 0 • 26
Lead Copper Tin	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>25 >100 >4	<1 1 0	<1 3 <1	1 6 <1
Antimony Vanadium Beryllium	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0 0 0	0 0	0 0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 60 0	2 0 55 <1	2 0 58 <1	3 0 62
Magnesium Calcium Phosphorus	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	1010 1070 1150	884 1034 1003	936 1043 995	940 1145 1016
Zinc Sulfur Lithium	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	1270 2060	1106 2366 <1	1161 2343 <1	1200 2471 <1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon Sodium Potassium	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>25	12 5 3	13 9 8	9 11 20
INFRA-RED		method	limit/base	current	history1	history2
Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	ASTM D7844* ASTM D7624* ASTM D7415*	>6 >20 >30	0.9 8.4 21.1	3 13.0 27.8	1.4 14.0 28.2



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CALA ISO 17025:2017 Accredited Laboratory

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

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County : GFL0091613

: 02583462 : 5644527

Received : 19 Sep 2023 Diagnosed

: Wes Davis Diagnostician

: 20 Sep 2023

220 Carmek Blvd Rocky View County, AB **CA T1X 1X1** Contact: GFL Calgary

calgarymaintenance@gflenv.com F: (403)369-6163

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.

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