

# **OIL ANALYSIS REPORT**

## Sample Rating Trend

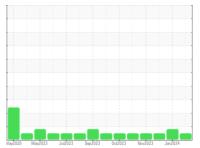




729045-361500

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

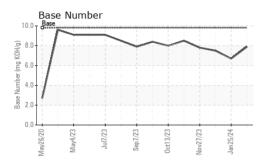
## **Fluid Condition**

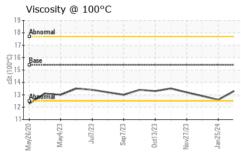
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
	MATION		IIIIIIVDase			
Sample Number		Client Info		GFL0104896	GFL0104906	GFL0088229
Sample Date		Client Info		14 Mar 2024	25 Jan 2024	14 Dec 2023
Machine Age	hrs	Client Info		28794	28494	28494
Oil Age	hrs	Client Info		28794	28210	0
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL
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
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	6	16	15
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	1	3	2
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	13	<u> 44</u>	16
Lead	ppm	ASTM D5185m	>40	3	<1	<1
Copper	ppm	ASTM D5185m		2	2	1
Tin	ppm		>15	2	<1	0
Vanadium	ppm	ASTM D5185m	710	<u>-</u> <1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES	PP	method	limit/base	current	history1	history2
Boron	ppm		0	<1	<1	0
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m	60	59	53	56
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	927	863	877
Calcium	ppm		1070	1089	934	991
Phosphorus		ASTM D5185m	1150	1220	932	847
Zinc	ppm	ASTM D5185m	1270	1213	1173	1155
Sulfur	ppm	ASTM D5185m	2060	3427	2731	2820
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10	11	6 1
Sodium	ppm	ASTM D5185m	00	1	4	
Potassium	ppm	ASTM D5185m	>20	3	<1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.2	0.6	0.5
Nitration	Abs/cm	*ASTM D7624	>20	6.2	10.0	8.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.9	19.2	18.9
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5	16.0	15.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.9	6.7	7.5
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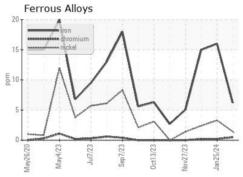


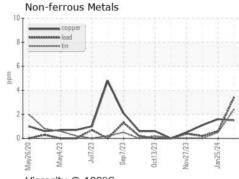


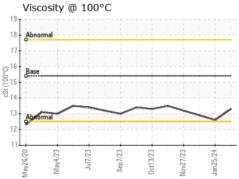
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

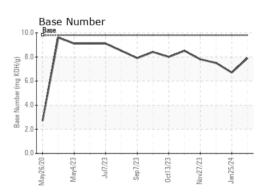
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	12.6	12.9

## **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number : 06126884

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

: GFL0104896

Unique Number : 10941035

Received : 22 Mar 2024 **Tested** Diagnosed

: 26 Mar 2024 : 26 Mar 2024 - Wes Davis

GFL Environmental - 820 - Joplin Hauling 3700 West 7th Street

Joplin, MO US 64801

Contact: James Jarrett

jjarrett@gflenv.com

T: (417)310-2802

Test Package : FLEET 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)