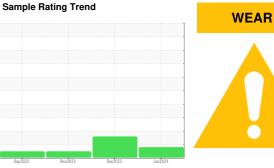


# **OIL ANALYSIS REPORT**





7808M Component **Diesel Engine** 

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

## **DIAGNOSIS**

## Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

## Wear

Cylinder, crank, or cam shaft wear is indicated.

## Contamination

There is no indication of any contamination in the

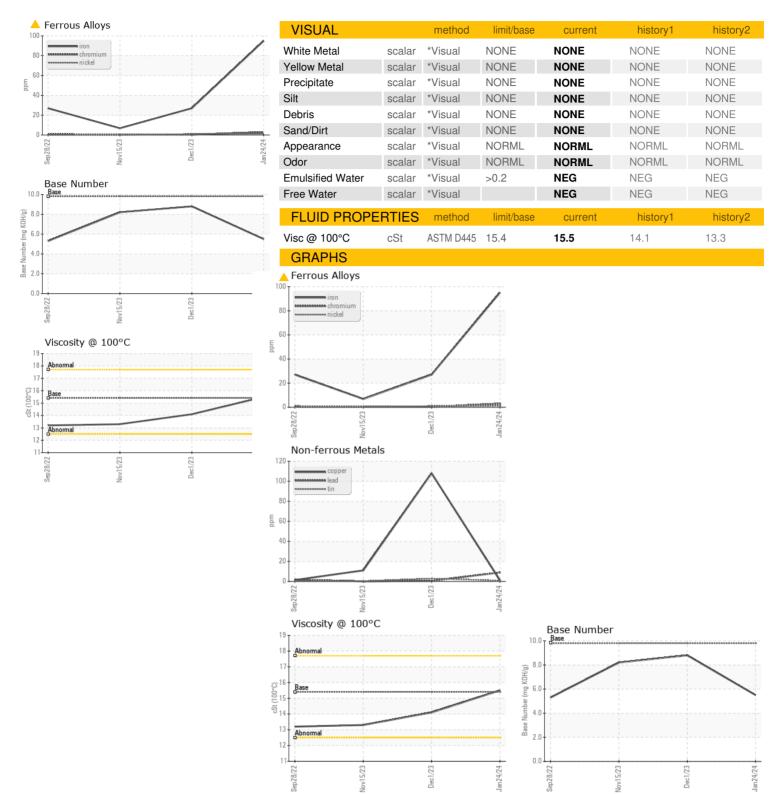
## **Fluid Condition**

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

N SHP 15W40 (	- GAL)	Sep 202	2 Nov2023	Dec2023 Ja	in2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0109966	GFL0104383	GFL0059231
Sample Date		Client Info		24 Jan 2024	01 Dec 2023	15 Nov 2023
Machine Age	hrs	Client Info		12299	126551	125554
Oil Age	hrs	Client Info		600	125554	18578
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
-uel		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
ron	ppm	ASTM D5185m	>90	<u> </u>	27	7
Chromium	ppm	ASTM D5185m	>20	3	<1	<1
Nickel	ppm	ASTM D5185m	>2	1	1	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	9	2	4
_ead	ppm	ASTM D5185m	>40	9	<1	0
Copper	ppm	ASTM D5185m	>330	1	108	11
Γin	ppm	ASTM D5185m	>15	<1	3	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	108	2
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	60	65	56
Manganese	ppm	ASTM D5185m	0	1	4	<1
Magnesium	ppm	ASTM D5185m	1010	906	359	883
Calcium	ppm	ASTM D5185m	1070	1039	1823	1004
Phosphorus	ppm	ASTM D5185m	1150	1012	1147	981
Zinc	ppm	ASTM D5185m	1270	1235	1316	1182
Sulfur	ppm	ASTM D5185m	2060	2404	4368	3016
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10	<u>^</u> 27	5
Sodium	ppm	ASTM D5185m		8	0	3
Potassium	ppm	ASTM D5185m	>20	12	4	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	1.2	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	16.3	5.8	5.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	30.3	17.9	18.7
FLUID DEGRAI	NOITAC	method	limit/base	current	history1	history2
FLUID DEGRALE  Oxidation	OATION Abs/.1mm	*ASTM D7414	limit/base >25	current 35.4	history1 13.7	history2 14.2



# **OIL ANALYSIS REPORT**







Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: GFL0109966 : 06071329

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved Diagnosed : 10848006

: 26 Jan 2024 : 30 Jan 2024 : Sean Felton Diagnostician

GFL Environmental - 410 - Michigan West 39000 Van Born Rd

Wayne, MI US 48184 Contact: Belal Dgheish bdgheish@gflenv.com T: (734)714-2340

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)