

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Machine Id **222048-670466**

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- G

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

Piston, ring and cylinder 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 suitable for further service.

GAL)		Feb2022	Dec2022	Dec2022 Nov2023	Dec2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date Machine Age	hrs	Client Info Client Info Client Info		GFL0101953 22 Dec 2023 6400	GFL0101967 30 Nov 2023 6391	GFL0066622 27 Dec 2022 6272
Oil Age Oil Changed	hrs	Client Info		128 Changed	119 Not Changd	67 Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel Water Glycol		WC Method WC Method	>5 >0.2	<1.0 NEG NEG	<1.0 NEG NEG	<1.0 NEG NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	126	△ 134	42
Chromium Nickel	ppm	ASTM D5185m ASTM D5185m	>20 >2	3 <1	3	1
Titanium Silver	ppm	ASTM D5185m ASTM D5185m		0	<1 0	<1 0
Aluminum Lead	ppm	ASTM D5185m ASTM D5185m	>25 >40	<u>^</u> 50 0	<u></u> 51 0	15 0
Copper Tin	ppm ppm	ASTM D5185m ASTM D5185m	>330 >15	3	4 0	1 0
Vanadium Cadmium	ppm ppm	ASTM D5185m ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron Barium	ppm	ASTM D5185m ASTM D5185m	0	5 0	6	7
Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m		46 1	62 1	56 <1
Magnesium Calcium	ppm	ASTM D5185m	1010	972	917	870 1019
Phosphorus Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	1150 1270 2060	843 1089 2744	1040 1197 3142	974 1148 3676
CONTAMINAN		method	limit/base	current	history1	history2
Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m		12 2	13	6 2
Potassium	ppm	ASTM D5185m	>20	0	2	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415		0.4 8.1 18.1	0.4 7.8 18.0	0.2 5.7 18.2
FLUID DEGRAD			limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.0	15.6	13.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.2	9.1	10.0



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number

Unique Number

: GFL0101953 : 06044588 : 10805196 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 26 Dec 2023 Recieved

: 27 Dec 2023 Diagnosed : Sean Felton Diagnostician

1904 North Broadway, Suite D

US 74820 Contact: Johnny Spurlock jspurlock@gflenv.com

T: (405)664-4476

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) Ada, OK