

OIL ANALYSIS REPORT









{UNASSIGNED} 914035 Component Diesel Engine

PETRO CANADA DURON HP 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.

N HP 15W40 (-	•					
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0119874	GFL0097849	GFL009780
Sample Date		Client Info		24 Jun 2024	21 Mar 2024	12 Feb 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		500	500	583
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
-uel		WC Method	>3.0	<1.0	<1.0	0.4
<i>N</i> ater		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	>120	25	11	44
Chromium	ppm	ASTM D5185m	>20	<1	<1	2
Nickel	ppm	ASTM D5185m	>5	3	1	6
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	<1	<1	2
Aluminum	ppm	ASTM D5185m	>20	2	1	4
_ead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	88	34	224
Γin	ppm	ASTM D5185m	>15	<1	0	3
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		10	11	223
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		65	58	112
Manganese	ppm	ASTM D5185m		2	<1	4
Magnesium	ppm	ASTM D5185m		1035	946	727
Calcium	ppm	ASTM D5185m		1166	1054	1338
Phosphorus	ppm	ASTM D5185m		1020	897	784
Zinc	ppm	ASTM D5185m		1345	1160	850
Sulfur	ppm	ASTM D5185m		2979	3228	2816
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10	9	▲ 83
Sodium	ppm	ASTM D5185m		7	2	0
Potassium	ppm	ASTM D5185m	>20	5	0	8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.5	0.2	0.4
Nitration	Abs/cm	*ASTM D7624	>20	9.2	6.7	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	19.6	24.2
FLUID DEGRA	DATION	method	limit/base		hiotomia	history2
FLUID DEGRA	DATION	memou	IIIIII/Dase	current	history1	HISTORYZ
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.5	15.8	21.8



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Certificate 12367

Laboratory Sample No. Unique Number : 11101196

Test Package : FLEET

: GFL0119874 Lab Number : 06222999

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 27 Jun 2024 **Tested** : 28 Jun 2024

Diagnosed

0.0 Feb12/24

: 28 Jun 2024 - Wes Davis

Morton, IL US 61550

1090 W. Jefferson St.

Contact: Bryan Link blink@gflenv.com T:

 st - 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)

Mar21/24

GFL Environmental - 958 - Tri County HC Morton

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