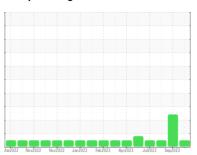


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



731119

Component **Natural Gas Engine**

PETRO CANADA DURON GEO LD 15W40 (--- GAL

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. No other contaminants were detected in the oil.

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.

(CAL)						
(GAL)						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0095125	GFL0090731	GFL0090690
Sample Date		Client Info		10 Oct 2023	12 Sep 2023	30 Aug 2023
Machine Age	hrs	Client Info		6490	6305	6237
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	ABNORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	42	<u></u> 56	5
Chromium	ppm	ASTM D5185m	>4	1	<u>4</u>	<1
Nickel	ppm	ASTM D5185m	>2	1	2	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>9	31	<u>^</u> 7	3
Lead	ppm	ASTM D5185m	>30	<1	5	0
Copper	ppm	ASTM D5185m	>35	18	1	0
Tin	ppm	ASTM D5185m	>4	1	1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	19	5	84
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	54	61	59
Manganese	ppm	ASTM D5185m	0	11	2	<1
Magnesium	ppm	ASTM D5185m	560	690	601	630
Calcium	ppm	ASTM D5185m	1510	1131	1756	1602
Phosphorus	ppm	ASTM D5185m	780	660	713	804
Zinc	ppm	ASTM D5185m	870	838	984	994
Sulfur	ppm	ASTM D5185m	2040	2143	2804	3116
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	29	21	6
Sodium	ppm	ASTM D5185m		7	10	4
Potassium	ppm	ASTM D5185m	>20	122	2	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	10.6	11.0	6.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.2	22.3	18.9
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.9	18.4	15.2
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	4.1	3.8	7.4
	- 0					



OIL ANALYSIS REPORT







Laboratory Sample No.

Lab Number **Unique Number**

: GFL0095125 : 05979274 : 10696569 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 16 Oct 2023 Received

> Diagnosed Diagnostician

: 17 Oct 2023 : Don Baldridge GFL Environmental - 836 - Kansas City Hauling 7801 East Truman Road

Kansas City, MO US 64126 Contact: Robert Hart

rhart@gflenv.com T: (580)461-1509

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)

F: