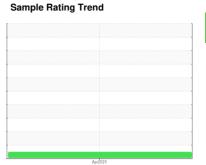


OIL ANALYSIS REPORT



NORMAL



Machine Id 734025

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

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. There is no indication of any contamination in the oil.

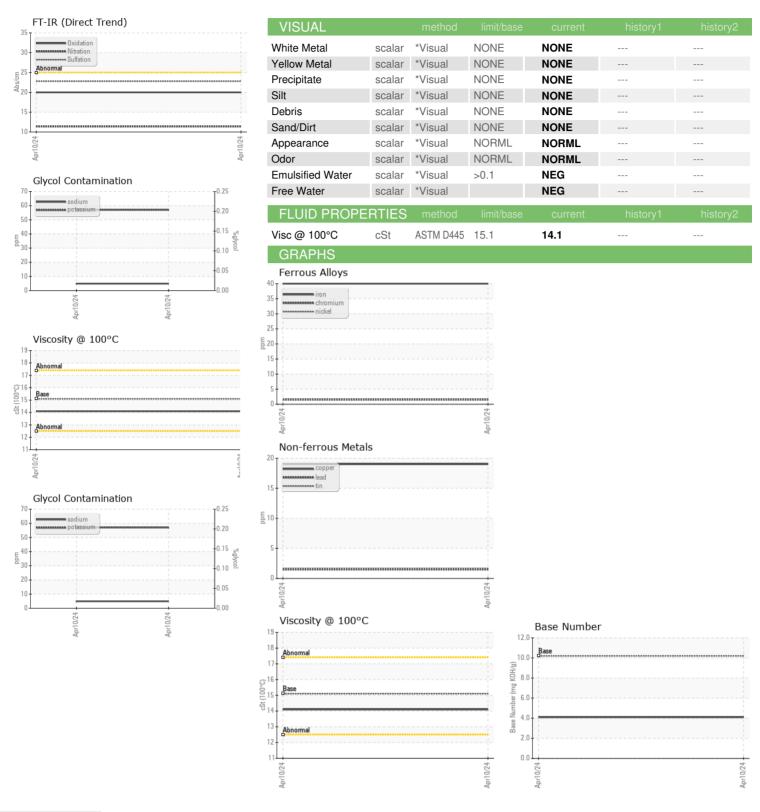
Fluid Condition

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

(GAL)				Apr2024		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0117750		
Sample Date		Client Info		10 Apr 2024		
Machine Age	hrs	Client Info		597		
Oil Age	hrs	Client Info		597		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	40		
Chromium	ppm	ASTM D5185m	>4	2		
Nickel	ppm	ASTM D5185m	>2	2		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>9	10		
Lead	ppm	ASTM D5185m	>30	2		
Copper	ppm	ASTM D5185m	>35	19		
Tin	ppm	ASTM D5185m	>4	2		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	14		
Barium	ppm	ASTM D5185m	5	0		
Molybdenum	ppm	ASTM D5185m	50	55		
Manganese	ppm	ASTM D5185m	0	12		
Magnesium	ppm	ASTM D5185m	560	687		
Calcium	ppm	ASTM D5185m	1510	1215		
Phosphorus	ppm	ASTM D5185m	780	675		
Zinc	ppm	ASTM D5185m	870	898		
Sulfur	ppm	ASTM D5185m	2040	2549		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	34		
Sodium	ppm	ASTM D5185m		5		
Potassium	ppm	ASTM D5185m	>20	57		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0		
Nitration	Abs/cm	*ASTM D7624	>20	11.4		
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.8		
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.0		
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	4.1		
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OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No.

Lab Number : 06155134 Unique Number : 10990557

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0117750

Received **Tested** Diagnosed

: 19 Apr 2024 : 24 Apr 2024

: 24 Apr 2024 - Sean Felton

GFL Environmental - 865 - East Mount Hauling 7213 East Mount Houston Road Houston, TX US 77050

Test Package : FLEET (Additional Tests: Glycol) To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: Saul Castillo saul.castillo@gflenv.com T:

* - 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)

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