

OIL ANALYSIS REPORT

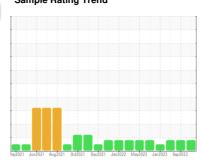
Sample Rating Trend

WEAR



Component **Natural Gas Engine**

PETRO CANADA DURON GEO LD 15W40 (36 QTS)





DIAGNOSIS

Recommendation

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

Wear

The aluminum level is abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the

Fluid Condition

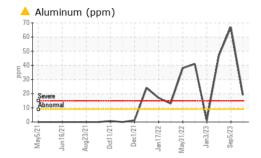
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

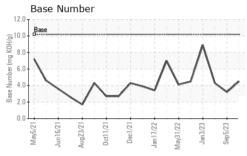
30 (410)		1ay2021 Jun20	1ay2021 Jun2021 Aug2021 Oct2021 Doc2021 Jan2022 May2022 Jan2023 Sep2023					
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		PCA0113420	PCA0101725	PCA0077282		
Sample Date		Client Info		13 Feb 2024	05 Sep 2023	19 Apr 2023		
Machine Age	hrs	Client Info		5910	4802	3614		
Oil Age	hrs	Client Info		1108	1188	624		
Oil Changed		Client Info		Changed	Changed	Changed		
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL		
CONTAMINAT	TION	method	limit/base	current	history1	history2		
Water		WC Method	>0.1	NEG	NEG	NEG		
WEAR METAL	_S	method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>50	8	12	7		
Chromium	ppm	ASTM D5185m	>4	1	2	<1		
Nickel	ppm	ASTM D5185m	>2	0	0	0		
Titanium	ppm	ASTM D5185m		0	0	0		
Silver	ppm	ASTM D5185m	>3	0	0	0		
Aluminum	ppm	ASTM D5185m	>9	1 9	△ 67	4 7		
Lead	ppm	ASTM D5185m	>30	2	11	0		
Copper	ppm	ASTM D5185m	>35	2	4	2		
Tin	ppm	ASTM D5185m	>4	<1	<1	0		
Vanadium	ppm	ASTM D5185m		0	<1	0		
Cadmium	ppm	ASTM D5185m		0	0	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	50	11	7	10		
Barium	ppm	ASTM D5185m	5	0	0	0		
Molybdenum	ppm	ASTM D5185m	50	52	57	38		
Manganese	ppm	ASTM D5185m	0	<1	<1	<1		
Magnesium	ppm	ASTM D5185m	560	585	665	411		
Calcium	ppm	ASTM D5185m	1510	1623	2071	1191		
Phosphorus	ppm	ASTM D5185m	780	769	837	546		
Zinc	ppm	ASTM D5185m	870	1031	1082	717		
Sulfur	ppm	ASTM D5185m	2040	2619	3322	2605		
CONTAMINAN	NTS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>+100	8	17	13		
Sodium	ppm	ASTM D5185m		4	9	4		
Potassium	ppm	ASTM D5185m	>20	0	0	0		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844		0.1	0.1	0.1		
Nitration	Abs/cm	*ASTM D7624	>20	12.3	11.8	9.5		
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.4	25.8	20.7		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.9	22.3	15.9		
Dogs Number (DN)	ma 1/011/-	ACTM DOOGS	10.0	A E	2.0	4.0		

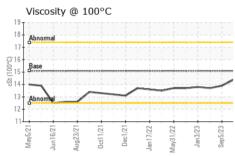
Base Number (BN) mg KOH/g ASTM D2896 10.2 4.5

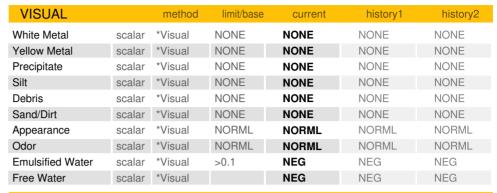


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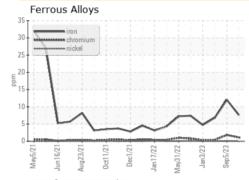


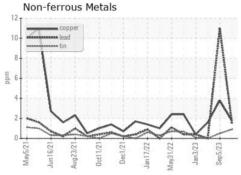


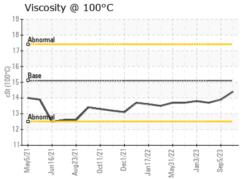


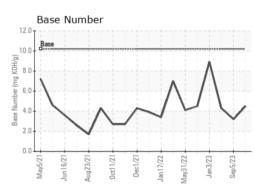
FLUID PROPE	KIIE2	method	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.1	14.4	13.9	13.7

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number : 06089885

: PCA0113420

Unique Number : 10882738 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

: 16 Feb 2024 : 16 Feb 2024 - Sean Felton Diagnosed

: 15 Feb 2024

GFL Environmental - 002 - Vance-Granville

241 Vanco Mill Rd Henderson, NC US 27537

T: (252)438-5333 F: (252)431-1635

Contact: Cameron King cameron.king@gflenv.com

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)