

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 932003

Component **Natural Gas Engine**

PETRO CANADA DURON GEO LD 15W40 (36 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

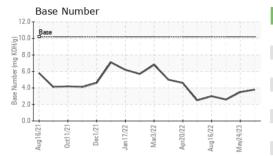
Fluid Condition

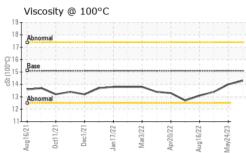
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

(36 QTS)						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0095853	PCA0077270	PCA0074686
Sample Date		Client Info		13 Nov 2023	24 May 2023	21 Dec 2022
Machine Age	hrs	Client Info		6290	5074	3905
Oil Age	hrs	Client Info		1216	1169	1060
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	9	13	8
Chromium	ppm	ASTM D5185m	>4	<1	2	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m		1	3	1
Lead	ppm	ASTM D5185m	>30	30	21	14
Copper	ppm	ASTM D5185m		9	8	6
Tin	ppm	ASTM D5185m	>4	<1	1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	10	12	5
Barium	ppm	ASTM D5185m		7	0	0
Molybdenum	ppm	ASTM D5185m	50	53	57	47
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m	560	563	626	473
Calcium	ppm	ASTM D5185m	1510	1648	1715	1488
Phosphorus	ppm	ASTM D5185m	780	846	855	669
Zinc	ppm	ASTM D5185m	870	991	1088	860
Sulfur	ppm	ASTM D5185m	2040	2634	3255	3856
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	6	8	8
Sodium	ppm	ASTM D5185m		5	11	7
Potassium	ppm	ASTM D5185m	>20	2	3	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	12.6	12.0	11.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.5	27.4	28.8
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.3	22.8	23.1
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	3.8	3.5	2.6



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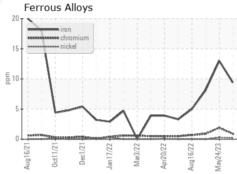




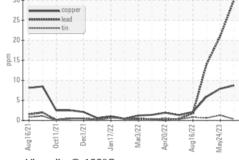
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

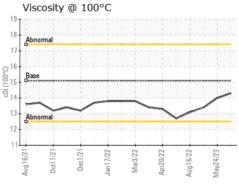
FLUID PROP	EKIIES	method	ilmivbase		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.1	14.3	14.0	13.4

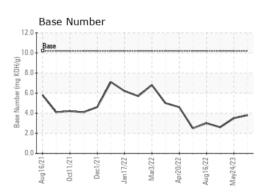
GRAPHS















Certificate L2367

Laboratory Sample No. Lab Number

Unique Number Test Package : FLEET

: PCA0095853 : 06009006

: 10742768

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Nov 2023 Diagnosed : 18 Nov 2023

Diagnostician : Don Baldridge

241 Vanco Mill Rd Henderson, NC

US 27537 Contact: Cameron King cameron.king@gflenv.com T: (252)438-5333

F: (252)431-1635

GFL Environmental - 002 - Vance-Granville

* - 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)