

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Component

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (38 (

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.

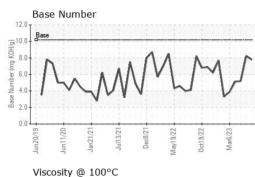
Fluid Condition

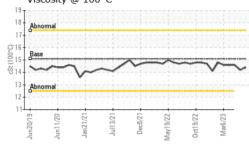
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

38 QTS)										
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2				
Sample Number		Client Info		GFL0087742	GFL0082227	GFL0082238				
Sample Date		Client Info		01 Sep 2023	22 Jun 2023	01 Jun 2023				
Machine Age	hrs	Client Info		13539	17359	7531				
Oil Age	hrs	Client Info		600	1200	0				
Oil Changed		Client Info		Not Changd	Changed	Not Changd				
Sample Status				NORMAL	NORMAL	NORMAL				
WEAR METAL	S	method	limit/base	current	history1	history2				
Iron	ppm	ASTM D5185m	>50	15	12	23				
Chromium	ppm	ASTM D5185m	>4	1	1	2				
Nickel	ppm	ASTM D5185m	>2	<1	<1	0				
Titanium	ppm	ASTM D5185m		<1	0	0				
Silver	ppm	ASTM D5185m	>3	0	0	0				
Aluminum	ppm	ASTM D5185m	>9	3	4	6				
Lead	ppm	ASTM D5185m	>30	0	<1	0				
Copper	ppm	ASTM D5185m	>35	<1	<1	2				
Tin	ppm	ASTM D5185m	>4	<1	<1	0				
Vanadium	ppm	ASTM D5185m		<1	0	0				
Cadmium	ppm	ASTM D5185m		0	0	0				
ADDITIVES		method	limit/base	current	history1	history2				
Boron	ppm	ASTM D5185m	50	41	45	8				
Barium	ppm	ASTM D5185m	5	0	0	0				
Molybdenum	ppm	ASTM D5185m	50	55	56	51				
Vanganese	ppm	ASTM D5185m	0	3	2	<1				
Magnesium	ppm	ASTM D5185m	560	592	559	530				
Calcium	ppm	ASTM D5185m	1510	1674	1586	1655				
Phosphorus	ppm	ASTM D5185m	780	798	800	685				
Zinc	ppm	ASTM D5185m	870	956	975	934				
Sulfur	ppm	ASTM D5185m	2040	2972	2799	2935				
CONTAMINAN	ITS	method	limit/base	current	history1	history2				
Silicon	ppm	ASTM D5185m	>+100	16	16	4				
Sodium	ppm	ASTM D5185m		3	2	8				
Potassium	ppm	ASTM D5185m	>20	0	3	<1				
INFRA-RED		method	limit/base	current	history1	history2				
Soot %	%	*ASTM D7844		0.1	0.1	0				
Nitration	Abs/cm	*ASTM D7624	>20	7.3	6.9	10.7				
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	19.1	20.3				
FLUID DEGRA	DATION	method	limit/base	current	history1	history2				
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	16.8	17.6				
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	7.8	8.2	5.2				



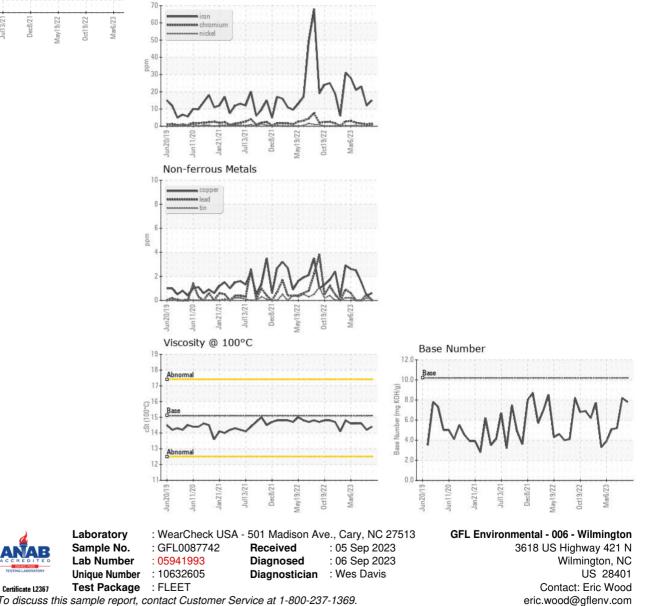
OIL ANALYSIS REPORT

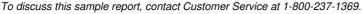




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.4	14.2	14.6
GRAPHS						

Ferrous Alloys





* - 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)

Submitted By: Eric Wood

T: (717)723-1956

F: (910)762-6880

Page 2 of 2