

OIL ANALYSIS REPORT

Sample Rating Trend





Component

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (-

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.

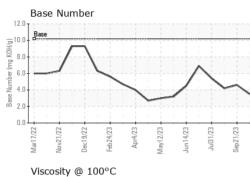
Fluid Condition

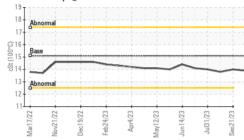
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

(GAL)									
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0095135	GFL0090674	GFL0090694			
Sample Date		Client Info		16 Oct 2023	21 Sep 2023	30 Aug 2023			
Machine Age	hrs	Client Info		4594	4445	4298			
Oil Age	hrs	Client Info		0	0	0			
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd			
Sample Status				NORMAL	NORMAL	NORMAL			
WEAR METAL	S	method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m	>50	4	4	5			
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1			
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1			
Titanium	ppm	ASTM D5185m		0	0	0			
Silver	ppm	ASTM D5185m	>3	0	0	0			
Aluminum	ppm	ASTM D5185m		2	3	4			
Lead	ppm	ASTM D5185m	>30	1	<1	0			
Copper	ppm	ASTM D5185m		1	2	<1			
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	7	9	10			
Barium	ppm	ASTM D5185m	5	0	0	0			
Molybdenum	ppm	ASTM D5185m	50	54	51	60			
Manganese	ppm	ASTM D5185m		0	<1	<1			
Magnesium	ppm	ASTM D5185m	560	543	535	621			
Calcium	ppm	ASTM D5185m	1510	1530	1480	1641			
Phosphorus	ppm	ASTM D5185m	780	661	697	732			
Zinc	ppm	ASTM D5185m	870	953	931	974			
Sulfur	ppm	ASTM D5185m	2040	2667	2375	2906			
CONTAMINAN	ITS	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>+100	7	7	7			
Sodium	ppm	ASTM D5185m		2	3	4			
Potassium	ppm	ASTM D5185m	>20	2	2	0			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844		0	0	0			
Nitration	Abs/cm	*ASTM D7624	>20	10.3	10.0	10.0			
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.2	20.8	20.9			
FLUID DEGRA	DATION	method	limit/base	current	history1	history2			
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.5	17.4	17.5			
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	3.5	4.6	4.2			

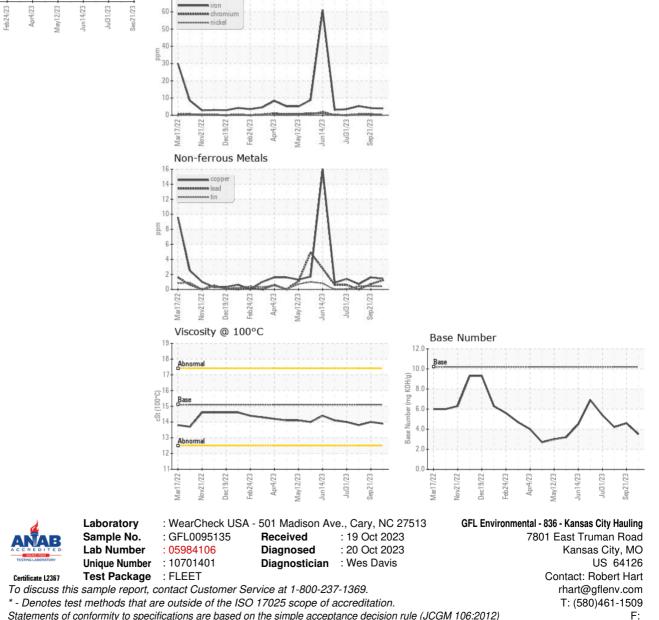


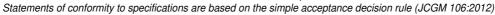
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VISUAL		method	limit/base	current	history1	history2			
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE			
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE			
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE			
Silt	scalar	*Visual	NONE	NONE	NONE	NONE			
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 PROPE	RTIES	method	limit/base	current	history1	history2			
Visc @ 100°C	cSt	ASTM D445	15.1	13.9	14.0	13.8			
GRAPHS									
Ferrous Alloys									





Contact/Location: See also GFL823, 834, 837, 840 - Robert Hart - GFL836