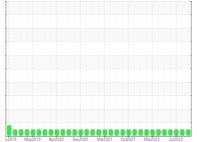


OIL ANALYSIS REPORT

SAMPLE INFORMATION method

Sample Rating Trend

NORMAL





Natural Gas Engine Fluid PETRO CANADA DURON GEO LD 15W40 (48 QTS)

DIAGNOSIS

Machine Id **2707C** Component

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

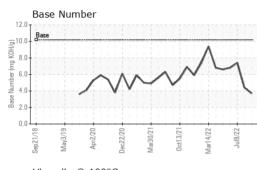
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

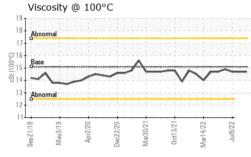
Sample Number		Client Info		GFL0089361	GFL0089344	GFL0052295
Sample Date		Client Info		06 Sep 2023	20 Jul 2023	09 Jul 2022
Machine Age	hrs	Client Info		15772	15380	12357
Oil Age	hrs	Client Info		392	3023	533
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	5	5	5
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	3	2
Lead	ppm	ASTM D5185m	>30	4	<1	<1
Copper	ppm	ASTM D5185m	>35	<1	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	8	15	19
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	53	53	51
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	545	577	548
Calcium	ppm	ASTM D5185m	1510	1707	1730	1587
Phosphorus	ppm	ASTM D5185m	780	692	758	742
Zinc	ppm	ASTM D5185m	870	928	972	989
Sulfur	ppm	ASTM D5185m	2040	2727	2915	2815
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	14	14	4
Sodium	ppm	ASTM D5185m		12	10	4
Potassium	ppm	ASTM D5185m	>20	0	0	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	11.2	11.0	10.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.1	22.6	23.0
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.1	19.5	19.8
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	3.7	4.4	7.4



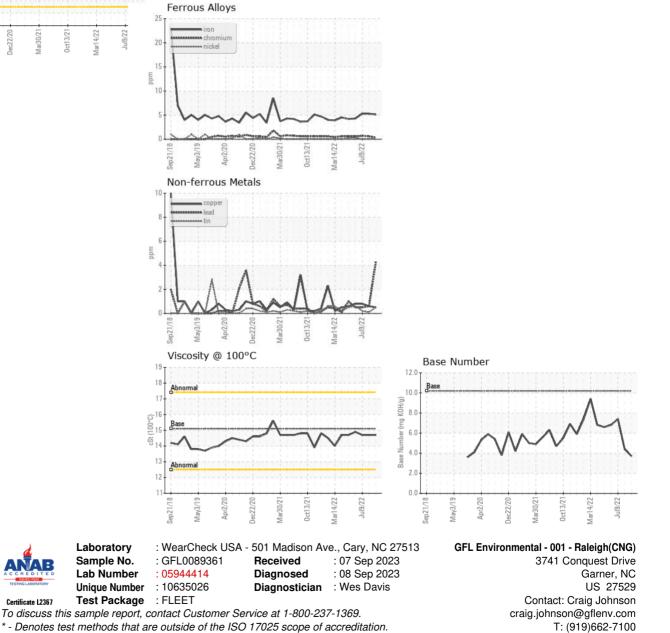
OIL ANALYSIS REPORT

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)





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	14.7	14.7	14.7
GRAPHS						



Certificate L2367

T: (919)662-7100

F: (919)662-7130