

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **731123** Component **Natural Gas Engine** Fluid

PETRO CANADA DURON GEO LD 15W40 (--- GAL)

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.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0117213	GFL0109822	GFL0109813
Sample Date		Client Info		24 Apr 2024	12 Feb 2024	01 Feb 2024
Machine Age	hrs	Client Info		6390	6085	6027
Oil Age	hrs	Client Info		0	1200	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	10	13	A 81
Chromium	ppm	ASTM D5185m	>4	0	1	<u> </u>
Nickel	ppm	ASTM D5185m	>2	0	0	3
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	1	2	<u> </u>
Lead	ppm	ASTM D5185m	>30	<1	4	🔺 15
Copper	ppm	ASTM D5185m	>35	2	2	9 9
Tin	ppm	ASTM D5185m	>4	<1	1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	30	13	6
Barium	ppm	ASTM D5185m	5	<1	0	<1
Molybdenum	ppm	ASTM D5185m	50	50	55	99
Manganese	ppm	ASTM D5185m	0	1	<1	2
Magnesium	ppm	ASTM D5185m	560	571	559	528
Calcium	ppm	ASTM D5185m	1510	1598	1570	1641
Phosphorus	ppm	ASTM D5185m	780	827	744	746
Zinc	ppm	ASTM D5185m	870	977	1025	1001
Sulfur	ppm	ASTM D5185m	2040	3061	2564	2494
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	6	4	18
Sodium	ppm	ASTM D5185m		2	1	<u> </u>
Potassium	ppm	ASTM D5185m	>20	0	1	2 09
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.6	11.1	13.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4	22.1	26.6
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	18.3	21.6
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	7.6	4.4	4.0



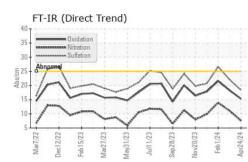
Mar7/22

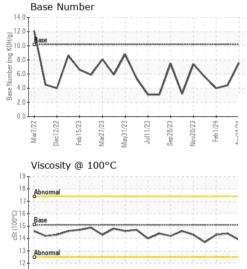
Dec12/22

Feb15/23

Mar27/23 /av31/23 ul11/23

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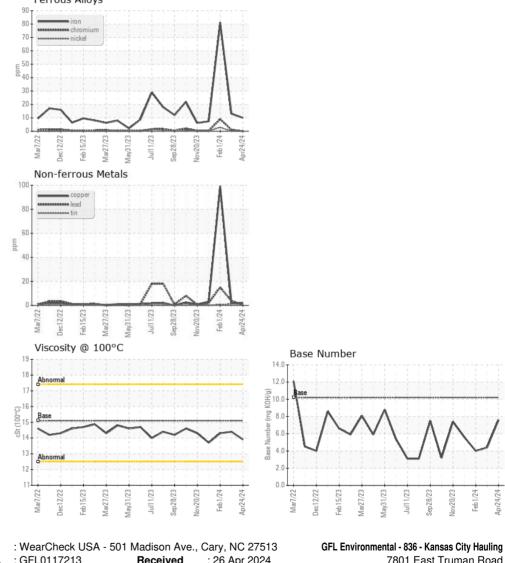


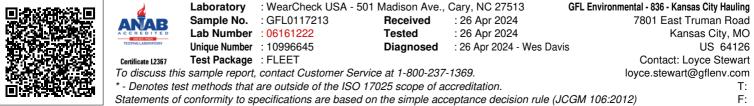
Feb1/24

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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	14.4	14.3
GRAPHS						

Ferrous Alloys





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