

OIL ANALYSIS REPORT

Sample Rating Trend



934037 Component Natural Gas Engine Fluid

PETRO CANADA 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Machine Id

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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.

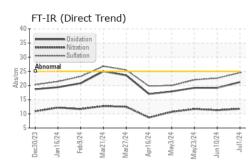
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0121996	GFL0116550	GFL0122059
Sample Date		Client Info		01 Jul 2024	10 Jun 2024	23 May 2024
Machine Age	hrs	Client Info		1465	1465	1344
Oil Age	hrs	Client Info		884	1005	1056
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	16	16	14
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>9	7	6	5
Lead	ppm	ASTM D5185m	>30	0	1	1
Copper	ppm	ASTM D5185m	>35	1	2	2
Tin	ppm	ASTM D5185m	>4	<1	<1	1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		11	7	7
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		58	57	51
Manganese	ppm	ASTM D5185m		2	2	2
Magnesium	ppm	ASTM D5185m		653	628	578
Calcium	ppm	ASTM D5185m		1741	1902	1575
Phosphorus	ppm	ASTM D5185m		792	804	726
Zinc	ppm	ASTM D5185m		1064	1073	960
Sulfur	ppm	ASTM D5185m		2872	3005	2660
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	9	8	8
Sodium	ppm	ASTM D5185m		7	7	7
Potassium	ppm	ASTM D5185m	>20	12	10	9
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0	0
Nitration	Abs/cm	*ASTM D7624	>20	11.8	11.3	11.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.5	22.6	22.0
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.2	19.2	19.2
Base Number (BN)	mg KOH/g	ASTM D2896		3.7	4.5	4.8
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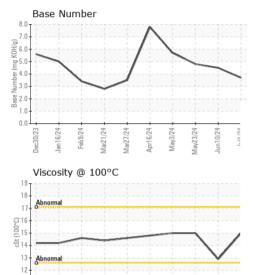


11

Dec30/23 Jan16/24 Feb9/24 Mar21/24

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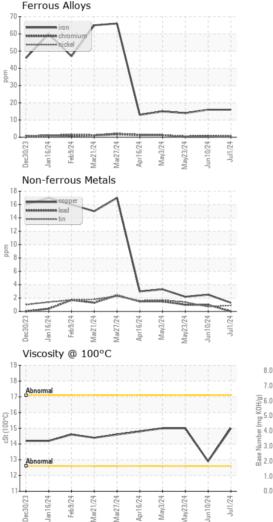


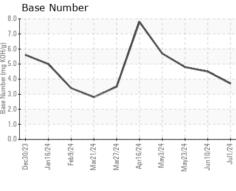


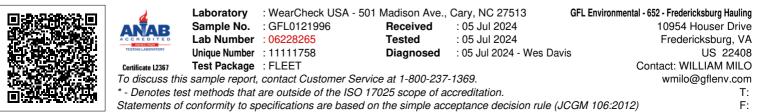
Apr16/24 Mav3/24 un10/24

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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	ERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445		15.0	12.9	15.0
GRAPHS						
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Submitted By: TECHNICIAN ACCOUNT

Page 2 of 2