

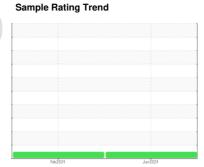


(TF5656) {UNASSIGNED} 713076

Component

Diesel Engine

PETRO CANADA 15W40 (8 GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

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

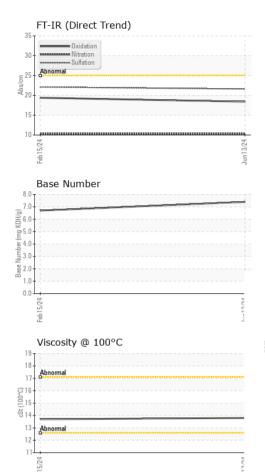
Fluid Condition

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

40 (8 GAL)			Feb2024	Jun2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0123504	GFL0109500	
Sample Date		Client Info		13 Jun 2024	15 Feb 2024	
Machine Age	hrs	Client Info		2783	1973	
Oil Age	hrs	Client Info		600	1973	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	49	55	
Chromium	ppm	ASTM D5185m	>20	2	2	
Nickel	ppm	ASTM D5185m	>2	<1	0	
Titanium	ppm	ASTM D5185m	>2	<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>20	5	4	
Lead	ppm	ASTM D5185m	>40	<1	0	
Copper	ppm	ASTM D5185m	>330	2	2	
Tin	ppm	ASTM D5185m	>15	<1	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		3	4	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		61	61	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m		903	984	
Calcium	ppm	ASTM D5185m		1109	1163	
Phosphorus	ppm	ASTM D5185m		864	1047	
Zinc	ppm	ASTM D5185m		1191	1331	
Sulfur	ppm	ASTM D5185m		2818	2891	
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	8	
Sodium	ppm	ASTM D5185m		1	3	
Potassium	ppm	ASTM D5185m	>20	11	9	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.9	1	
Nitration	Abs/cm	*ASTM D7624	>20	10.3	10.3	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	22.1	
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.4	19.4	
Base Number (BN)	mg KOH/g	ASTM D2896		7.4	6.7	



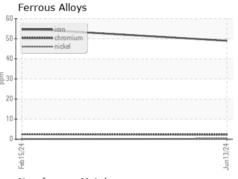
OIL ANALYSIS REPORT

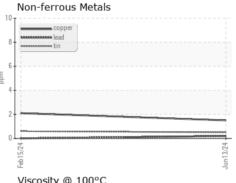


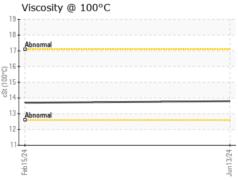
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	

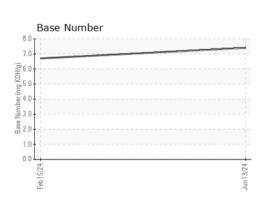
FLUID PROPI	ERHES	method		history1	history2
Visc @ 100°C	cSt	ASTM D445	13.8	13.7	

GRAPHS













Certificate 12367

Laboratory Sample No.

Lab Number : 06209834

Test Package : FLEET

: GFL0123504 Unique Number : 11082698

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Tested

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Jun 2024 : 15 Jun 2024 Diagnosed

: 15 Jun 2024 - Wes Davis

GFL Environmental - 019 - Greenville/TriEast

415 Staton Road Greenville, NC US 27834

Contact: Gerald Fowler gfowler@gflenv.com

* - 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) T:

F: