

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

(YA122768) 10567C

Natural Gas Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Area

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

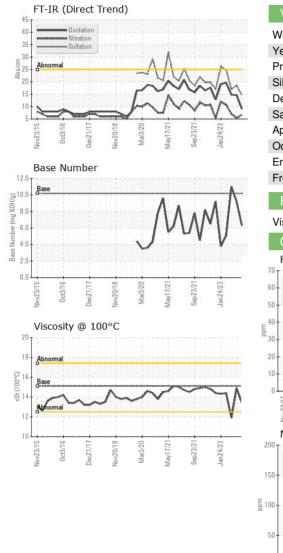
Fluid Condition

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

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SAMPLE INFOR	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0109667	GFL0109737	GFL0092665			
Sample Date		Client Info		09 Apr 2024	25 Jan 2024	28 Nov 2023			
Machine Age	hrs	Client Info		0	18045	18025			
Oil Age	hrs	Client Info		0	70	532			
Oil Changed		Client Info		N/A	Not Changd	Changed			
Sample Status				NORMAL	NORMAL	ABNORMAL			
CONTAMINAT	ION	method	limit/base	current	history1	history2			
Water		WC Method	>0.1	NEG	NEG	NEG			
Glycol		WC Method				0.0			
WEAR METAL	S	method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m	>50	17	0	67			
Chromium	ppm	ASTM D5185m	>4	<1	<1	5			
Nickel	ppm	ASTM D5185m	>2	0	0	1			
Titanium	ppm	ASTM D5185m		0	0	<1			
Silver	ppm	ASTM D5185m	>3	0	0	<1			
Aluminum	ppm	ASTM D5185m	>9	1	1	4			
Lead	ppm	ASTM D5185m	>30	0	0	2			
Copper	ppm	ASTM D5185m	>35	<1	0	25			
Tin	ppm	ASTM D5185m	>4	0	<1	<1			
Vanadium	ppm	ASTM D5185m		0	0	0			
Cadmium	ppm	ASTM D5185m		0	0	<1			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	50	99	43	44			
Barium	ppm	ASTM D5185m	5	0	0	0			
Molybdenum	ppm	ASTM D5185m	50	72	47	49			
Manganese	ppm	ASTM D5185m	0	<1	0	2			
Magnesium	ppm	ASTM D5185m	560	639	610	566			
Calcium	ppm	ASTM D5185m	1510	1091	1304	1291			
Phosphorus	ppm	ASTM D5185m	780	741	795	760			
Zinc	ppm	ASTM D5185m	870	842	932	908			
Sulfur	ppm	ASTM D5185m	2040	3114	2416	2427			
CONTAMINAN	ITS	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>+100	6	6	32			
Sodium	ppm	ASTM D5185m		8	2	7			
Potassium	ppm	ASTM D5185m	>20	5	0	3			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844		0.1	0	0.1			
Nitration	Abs/cm	*ASTM D7624	>20	6.8	5.3	7.1			
Sulfation	Abs/.1mm	*ASTM D7415	>30	14.4	18.6	16.9			
FLUID DEGRA	DATION	method	limit/base	current	history1	history2			
Oxidation	Abs/.1mm	*ASTM D7414	>25	9.0	14.6	14.8			
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	6.3	9.2	11.0			
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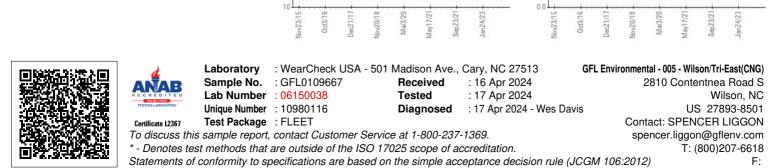
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	0.2%
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	13.4	14.9	11.9
GRAPHS						
Non-ferrous Meta		8ep23/21				
SUREZNON Viscosity @ 100°C		May 17/21 Sep 23/21 Lan 24 / 23	12.0 10.0 (PHO) 8.0 1 A (a) (b) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Base Number	٨	

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Report Id: GFL005 [WUSCAR] 06150038 (Generated: 04/17/2024 07:06:36) Rev: 1

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