

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id 733021 Component

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

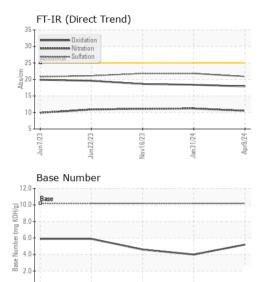
Fluid Condition

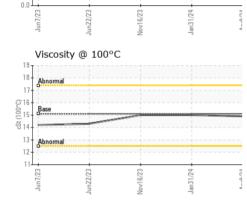
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0106907	GFL0092119	GFL0092039
Sample Date		Client Info		09 Apr 2024	31 Jan 2024	16 Nov 2023
Machine Age	hrs	Client Info		3070	2475	1823
Oil Age	hrs	Client Info		600	0	3981
Oil Changed		Client Info		Changed	Changed	Changed
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	6	10	11
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	2	1
Lead	ppm	ASTM D5185m	>30	<1	<1	0
Copper	ppm	ASTM D5185m	>35	1	<1	1
Tin	ppm	ASTM D5185m	>4	1	1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	11	11	5
Barium	ppm	ASTM D5185m	5	0	0	<1
Molybdenum	ppm	ASTM D5185m	50	57	55	52
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	557	550	527
Calcium	ppm	ASTM D5185m	1510	1712	1597	1502
Phosphorus	ppm	ASTM D5185m	780	799	697	625
Zinc	ppm	ASTM D5185m	870	985	994	929
Sulfur	ppm	ASTM D5185m	2040	2713	2525	2560
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm		>+100	4	5	5
Sodium	ppm	ASTM D5185m		9	10	9
Potassium	ppm	ASTM D5185m	>20	4	6	8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	10.5	11.2	11.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	21.8	21.8
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.9	18.4	18.6



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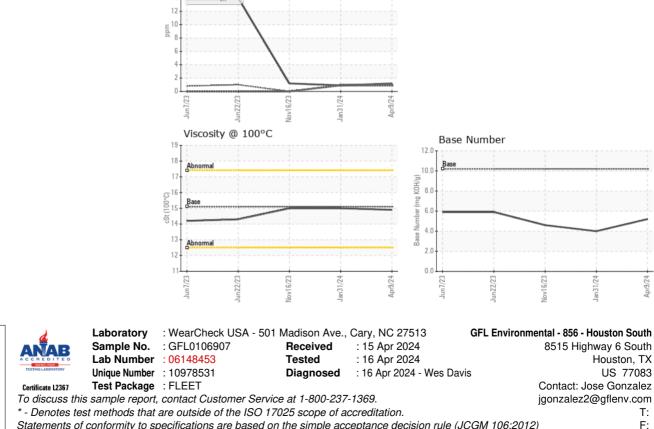
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Non-ferrous Metals

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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	14.9	15.0	15.0
GRAPHS						
Ferrous Alloys						
³⁰		1				
25 - chromium		 				
20						
15-						
10						
			-			



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

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