

OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 934067

Component Natural Gas Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a components first oil change.

Contamination

Elevated aluminum (AI) 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.

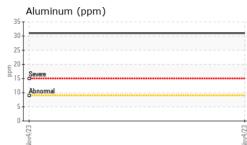
Fluid Condition

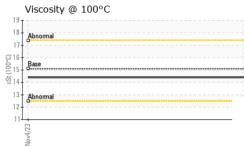
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

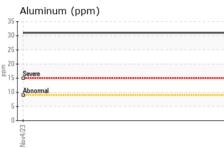
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0100526		
Sample Date		Client Info		04 Nov 2023		
Machine Age	hrs	Client Info		605		
Oil Age	hrs	Client Info		605		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	41		
Chromium	ppm	ASTM D5185m	>4	<1		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>9	31		
Lead	ppm	ASTM D5185m	>30	<1		
Copper	ppm	ASTM D5185m	>35	13		
Tin	ppm	ASTM D5185m	>4	1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	8		
Barium	ppm	ASTM D5185m	5	0		
Molybdenum	ppm	ASTM D5185m	50	50		
Manganese	ppm	ASTM D5185m	0	7		
Magnesium	ppm	ASTM D5185m	560	786		
Calcium	ppm	ASTM D5185m	1510	1267		
Phosphorus	ppm	ASTM D5185m	780	657		
Zinc	ppm	ASTM D5185m	870	932		
Sulfur	ppm	ASTM D5185m	2040	2247		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	34		
Sodium	ppm	ASTM D5185m		4		
Potassium	ppm	ASTM D5185m	>20	120		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0		
Nitration	Abs/cm	*ASTM D7624	>20	11.4		
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.6		
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.8		
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	4.7		

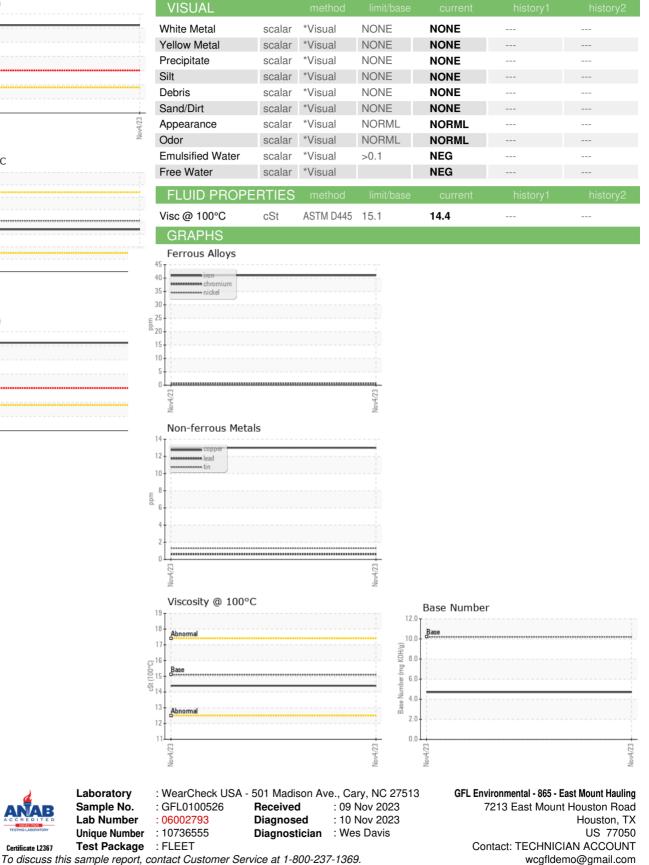


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* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

Certificate L2367

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