

OIL ANALYSIS REPORT

3870 2019 AUTOCAR ACX64 Component

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (48 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

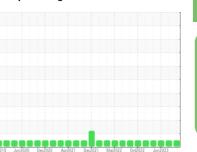
All component wear rates are normal.

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.





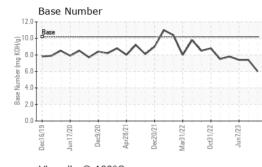
NORMAL

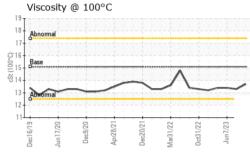
Sample Rating Trend

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0094663	GFL0094695	GFL0056704
Sample Date		Client Info		03 Nov 2023	11 Oct 2023	07 Jun 2023
Machine Age	hrs	Client Info		12495	12288	11300
Oil Age	hrs	Client Info		207	988	560
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	13	21	6
Chromium	ppm	ASTM D5185m	>4	<1	2	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>9	1	2	<1
Lead	ppm	ASTM D5185m	>30	16	2	2
Copper	ppm	ASTM D5185m	>35	2	<1	0
Tin	ppm	ASTM D5185m	>4	<1	<1	1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	4	3	7
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	64	65	65
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	973	984	983
Calcium	ppm	ASTM D5185m	1510	1117	1110	1161
Phosphorus	ppm	ASTM D5185m	780	1078	1041	1089
Zinc	ppm	ASTM D5185m	870	1296	1296	1383
Sulfur	0.00					
	ppm	ASTM D5185m	2040	2737	2954	3826
CONTAMINAN		ASTM D5185m method	2040 limit/base	2737 current	2954 history1	3826 history2
CONTAMINAN Silicon						
	TS	method	limit/base	current	history1	history2
Silicon	TS ppm	method ASTM D5185m	limit/base	current 5	history1 9	history2 3
Silicon Sodium	TS ppm ppm	method ASTM D5185m ASTM D5185m	limit/base >+100	current 5 6	history1 9 6	history2 3 4
Silicon Sodium Potassium	TS ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >+100 >20	current 5 6 0	history1 9 6 1	history2 3 4 3
Silicon Sodium Potassium INFRA-RED	TS ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base >+100 >20	current 5 6 0 current	history1 9 6 1 history1	history2 3 4 3 history2
Silicon Sodium Potassium INFRA-RED Soot %	TS ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	limit/base >+100 >20 limit/base	current 5 6 0 current 0.7	history1 9 6 1 history1 0.3	history2 3 4 3 history2 0.3
Silicon Sodium Potassium INFRA-RED Soot % Nitration	TS ppm ppm ppm % Abs/cm Abs/.1mm	methodASTM D5185mASTM D5185mASTM D5185m• Method*ASTM D7844*ASTM D7624	limit/base >+100 >20 limit/base >20	current 5 6 0 current 0.7 10.7	history1 9 6 1 history1 0.3 8.8	history2 3 4 3 history2 0.3 8.0
Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	TS ppm ppm ppm % Abs/cm Abs/.1mm	method ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >+100 >20 limit/base >20 >30	current 5 6 0 current 0.7 10.7 23.9	history1 9 6 1 history1 0.3 8.8 19.9	history2 3 4 3 history2 0.3 8.0 20.5

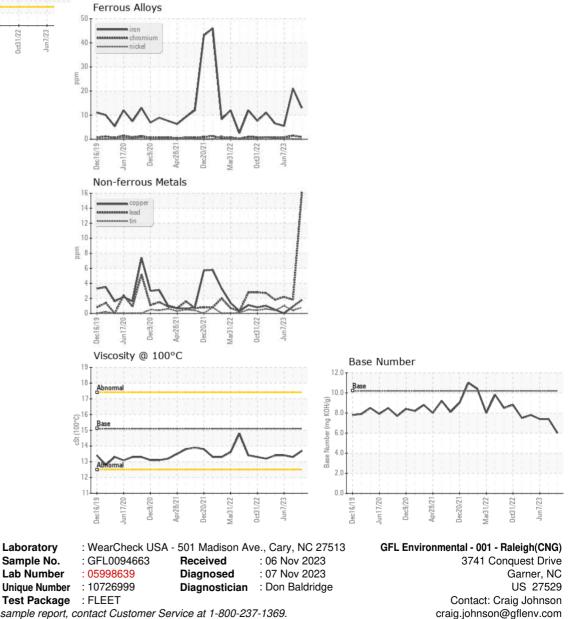


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	13.7	13.3	13.4
GRAPHS						



 Certificate L2367
 Test Package
 : FLEET

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

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