

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id 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.

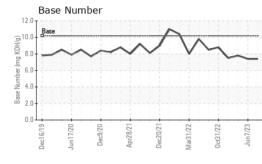
Fluid Condition

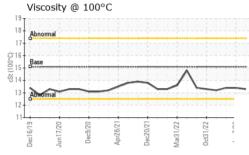
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

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18 QTS)		pc2019 Jun2	020 Dec2020 Apr2021	Dec2021 Mar2022 Oct2022	Jun2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0094695	GFL0056704	GFL0056649
Sample Date		Client Info		11 Oct 2023	07 Jun 2023	05 Apr 2023
Machine Age	hrs	Client Info		12288	11300	10740
Dil Age	hrs	Client Info		988	560	571
Dil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>50	21	6	6
Chromium	ppm	ASTM D5185m	>4	2	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Fitanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>9	2	<1	<1
_ead	ppm	ASTM D5185m	>30	2	2	2
Copper	ppm	ASTM D5185m	>35	<1	0	<1
Γin	ppm	ASTM D5185m	>4	<1	1	<1
/anadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	3	7	16
Barium	ppm	ASTM D5185m	5	0	0	2
Molybdenum	ppm	ASTM D5185m	50	65	65	59
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	984	983	810
Calcium	ppm	ASTM D5185m	1510	1110	1161	1189
Phosphorus	ppm	ASTM D5185m	780	1041	1089	963
Zinc	ppm	ASTM D5185m	870	1296	1383	1173
Sulfur	ppm	ASTM D5185m	2040	2954	3826	2953
CONTAMINAN	ITS	method	limit/base	current	history1	history2
		method ASTM D5185m		current 9	history1 3	history2 4
Silicon	ppm ppm					
Silicon Sodium	ppm	ASTM D5185m ASTM D5185m		9	3	4
Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>+100	9 6	3 4	4
Silicon Sodium Potassium INFRA-RED	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>+100 >20	9 6 1	3 4 3	4 5 1
Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	>+100 >20 limit/base	9 6 1 current	3 4 3 history1	4 5 1 history2
Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	>+100 >20 limit/base	9 6 1 current 0.3	3 4 3 history1 0.3	4 5 1 history2 0.3
Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	>+100 >20 limit/base >20	9 6 1 current 0.3 8.8	3 4 3 history1 0.3 8.0	4 5 1 history2 0.3 8.1
Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>+100 >20 limit/base >20 >30	9 6 1 current 0.3 8.8 19.9	3 4 3 history1 0.3 8.0 20.5	4 5 1 history2 0.3 8.1 19.7

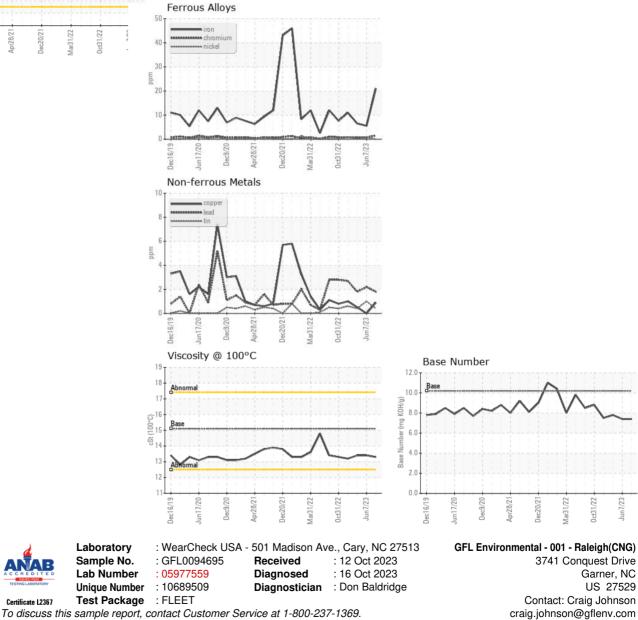


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar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



Certificate L2367 * - 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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