

OIL ANALYSIS REPORT

Sample Rating Trend





Area (YA171056) Machine Id 9154 Component

Natural Gas Engine

PETRO CANADA 15W40 (5 GAL)

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.

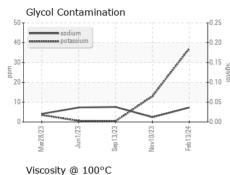
Fluid Condition

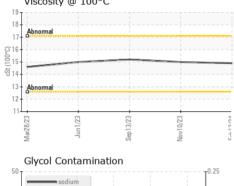
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

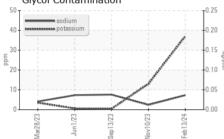
Sample NumberClient InfoGFL0098155GFL0098116GFL0088535Sample DateClient Info13 Feb 202410 Nov 202313 Sep 2023Machine AgehrsClient Info155271552715527Oil AgehrsClient Info666279469Oil ChangedClient InfoN/AN/AN/ASample StatusImit/basecurrenthistory1history2WaterWC Method >0.1NEGNEGNEGVEAR METALSmethodlimit/basecurrenthistory1history2IronppmASTM D5185m>50141422ChromiumppmASTM D5185m>20<1<1NickelppmASTM D5185m>30<10SilverppmASTM D5185m>30<10AluminumppmASTM D5185m>30<1<1<1CopperppmASTM D5185m>35436TinppmASTM D5185m>35436TinppmASTM D5185m>35436
Machine AgehrsClient Info155271552715527Oil AgehrsClient Info666279469Oil ChangedClient InfoN/AN/AN/ASample StatusIIINORMALNORMALCONTAMINATIONmethodlimit/basecurrenthistory1history2WaterWC Method>0.1NEGNEGNEGWEAR METALSmethodlimit/basecurrenthistory1history2IronppmASTM D5185m>50141422ChromiumppmASTM D5185m>4223NickelppmASTM D5185m>20<1<1TitaniumppmASTM D5185m>30<10AluminumppmASTM D5185m>3664LeadppmASTM D5185m>35436TinppmASTM D5185m>3<1<1<1
Oil AgehrsClient Info666279469Oil ChangedClient InfoN/AN/AN/ASample StatusImit/baseNORMALNORMALNORMALCONTAMINATIONmethodlimit/basecurrenthistory1history2WaterWC Method>0.1NEGNEGNEGWEAR METALSmethodlimit/basecurrenthistory1history2IronppmASTM D5185m>50141422ChromiumppmASTM D5185m>20<1<1NickelppmASTM D5185m>30<10SilverppmASTM D5185m>30<10AluminumppmASTM D5185m>9664LeadppmASTM D5185m>30<1<1<1CopperppmASTM D5185m>35436TinppmASTM D5185m>354<1<1
Oil Changed Sample StatusClient InfoN/AN/AN/ASample StatusImit/baseCurrentNORMALNORMALCONTAMINATIONmethodlimit/basecurrenthistory1history2WaterWC Method>0.1NEGNEGNEGWEAR METALSmethodlimit/basecurrenthistory1history2IronppmASTM D5185m>50141422ChromiumppmASTM D5185m>4223NickelppmASTM D5185m>20<1<1TitaniumppmASTM D5185m>30<10SilverppmASTM D5185m>9664LeadppmASTM D5185m>30<1<1<1CopperppmASTM D5185m>35436TinppmASTM D5185m>4<1<1<1
Sample StatusNORMALNORMALNORMALNORMALCONTAMINATIONmethodlimit/basecurrenthistory1history2WaterWC Method>0.1NEGNEGNEGWEAR METALSmethodlimit/basecurrenthistory1history2IronppmASTM D5185m>50141422ChromiumppmASTM D5185m>4223NickelppmASTM D5185m>20<1<1TitaniumppmASTM D5185m>30<10SilverppmASTM D5185m>9664LeadppmASTM D5185m>30<1<1<1CopperppmASTM D5185m>35436TinppmASTM D5185m>4<1<1<1
CONTAMINATIONmethodlimit/basecurrenthistory1history2WaterWC Method>0.1NEGNEGNEGWEAR METALSmethodlimit/basecurrenthistory1history2IronppmASTM D5185m>50141422ChromiumppmASTM D5185m>4223NickelppmASTM D5185m>20<1<1TitaniumppmASTM D5185m>30<10SilverppmASTM D5185m>30<10AluminumppmASTM D5185m>9664LeadppmASTM D5185m>30<1<1<1CopperppmASTM D5185m>35436TinppmASTM D5185m>4<1<1<1
Water WC Method >0.1 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 14 14 22 Chromium ppm ASTM D5185m >4 2 2 3 Nickel ppm ASTM D5185m >2 0 <1
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 14 14 22 Chromium ppm ASTM D5185m >4 2 2 3 Nickel ppm ASTM D5185m >2 0 <1 <1 Titanium ppm ASTM D5185m >2 0 <1 0 Silver ppm ASTM D5185m >3 0 <1 0 Aluminum ppm ASTM D5185m >3 0 <1 0 Lead ppm ASTM D5185m >3 6 4 Lead ppm ASTM D5185m >35 4 3 6 Tin ppm ASTM D5185m >35 4 3 6
Iron ppm ASTM D5185m >50 14 14 22 Chromium ppm ASTM D5185m >4 2 2 3 Nickel ppm ASTM D5185m >2 0 <1
Chromium ppm ASTM D5185m >4 2 2 3 Nickel ppm ASTM D5185m >2 0 <1 <1 Titanium ppm ASTM D5185m >2 0 <1 <1 Silver ppm ASTM D5185m >3 0 <1 0 Aluminum ppm ASTM D5185m >9 6 6 4 Lead ppm ASTM D5185m >30 <1 <1 <1 Copper ppm ASTM D5185m >35 4 3 6 Tin ppm ASTM D5185m >4 <1 <1 <1
Nickel ppm ASTM D5185m >2 0 <1
Titanium ppm ASTM D5185m 0 <1
Silver ppm ASTM D5185m >3 0 <1
Aluminum ppm ASTM D5185m >9 6 6 4 Lead ppm ASTM D5185m >30 <1
Lead ppm ASTM D5185m >30 <1
Copper ppm ASTM D5185m >35 4 3 6 Tin ppm ASTM D5185m >4 <1
Tin ppm ASTM D5185m >4 <1
ht. s. s.s.
Vanadium ppm ASTM D5185m 0 -1 -1
Cadmium ppm ASTM D5185m 0 <1
ADDITIVES method limit/base current history1 history2
Boron ppm ASTM D5185m 13 10 7
Barium ppm ASTM D5185m 0 0 0
Molybdenum ppm ASTM D5185m 49 53 51
Manganese ppm ASTM D5185m <1
Magnesium ppm ASTM D5185m 567 560 557
Calcium ppm ASTM D5185m 1514 1515 1663
Phosphorus ppm ASTM D5185m 720 735 707
Zinc ppm ASTM D5185m 955 935 948
Sulfur ppm ASTM D5185m 3014 2520 2697
CONTAMINANTS method limit/base current history1 history2
Silicon ppm ASTM D5185m >+100 4 6 10
Sodium ppm ASTM D5185m 7 2 8
Potassium ppm ASTM D5185m >20 37 13 <1
INFRA-RED method limit/base current history1 history2
Soot % *ASTM D7844 0 0 0
Soot % *ASTM D7844 0 0 0 Nitration Abs/cm *ASTM D7624 >20 10.3 9.6 10.8
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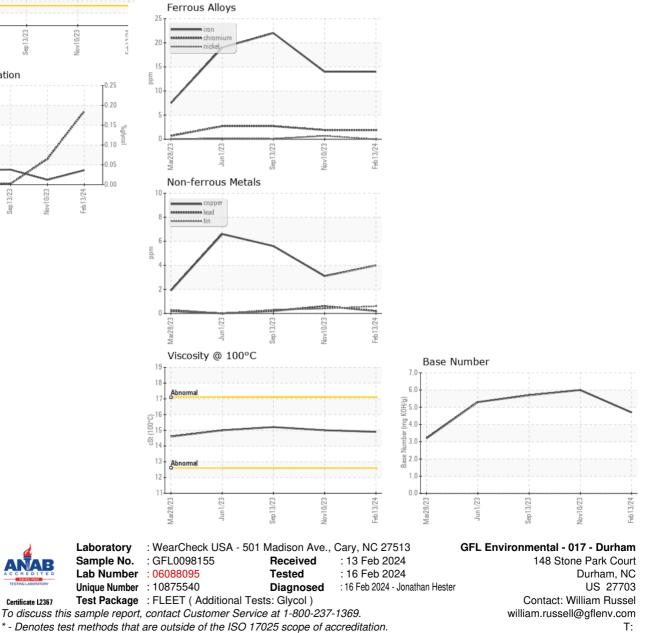
OIL ANALYSIS REPORT







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		14.9	15.0	15.2
GRAPHS						



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (919)598-1852

Certificate L2367