

OIL ANALYSIS REPORT



Machine Id 10592

Component Diesel Engine

Fluid PETRO CANADA DURON SHP 15W40 (32 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.

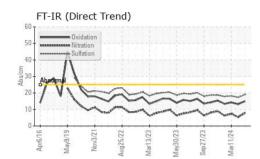
Sample NumberClient InfoGFL0111491GFL0068834GFL0068828Sample DateClient Info17 Apr 202429 Mar 202411 Mar 2024Vachine AgehrsClient Info221102196421924Dil AgehrsClient Info388242202Dil ChangedClient Info0 No ChangedNo ChangedNo ChangedSample StatusClient InfoNORMALNORMALNORMALCONTAMINATIONmethodimit/basecurrenthistory1VelWC Method>3.0<1.0<1.0VaterWC Method>0.2NEGNEGWEAR METALSmethodimit/basecurrenthistory1VelWC Method>2.2NEGNEGNergenASTM D5185m>5<1<1VickelppmASTM D5185m>200SilverppmASTM D5185m>200OpperppmASTM D5185m>200AdminumppmASTM D5185m>200AdminumppmASTM D5185m>200CopperppmASTM D5185m>200AdminumppmASTM D5185m>200AdminumppmASTM D5185m>200CopperppmASTM D5185m>412CadadiumppmASTM D5185m055AdmadumppmASTM D518
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Dromium ppm ASTM D5185m >5 <1
Nickel ppm ASTM D5185m >4 <1
Titanium ppm ASTM D5185m >2 <1
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Lead ppm ASTM D5185m >25 <1
Copper ppm ASTM D5185m >100 <1
Prime Prime ASTM D5185m >4 <1
Vanadium ppm ASTM D5185m <1
Cadmium ppm ASTM D5185m <1
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Zinc ppm ASTM D5185m 1270 1171 1175 1122
Sulfur ppm ASTM D5185m 2060 3076 3350 2922
CONTAMINANTS method limit/base current history1 history2
Silicon ppm ASTM D5185m >25 9 6 6
Sodium ppm ASTM D5185m 57 3 4
Potassium ppm ASTM D5185m >20 12 2 3
INFRA-RED method limit/base current history1 history2
Soot % % *ASTM D7844 >6 0.4 0.2 0.3
Nitration Abs/cm *ASTM D7624 >20 7.9 5.4 7.4
Sulfation Abs/.1mm *ASTM D7415 >30 19.0 17.3 18.2
Sulfation Abs/.1mm *ASTM D7415 >30 19.0 17.3 18.2

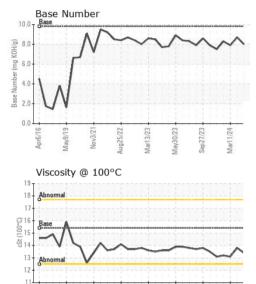


Apr6/16

Mav9/19

OIL ANALYSIS REPORT





Mar13/23

a25/22

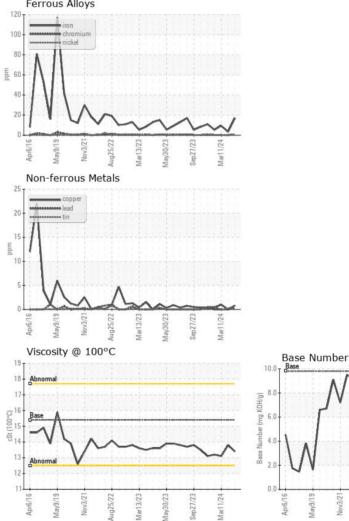
Sep27/23

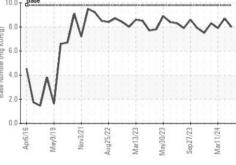
v30/23

Mar11/24 -

VISUAL		method				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	>0.2	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	15.4	13.4	13.8	13.1
GRAPHS						

Ferrous Alloys





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 073 - Warner Robins - Transwaste Sample No. : GFL0111491 Received : 19 Apr 2024 155 Story Road Lab Number : 06155046 Tested : 23 Apr 2024 Warner Robins, GA US 31093 Unique Number : 10990469 Diagnosed : 23 Apr 2024 - Wes Davis Test Package : FLEET Contact: Mike Taft Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T:

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

Report Id: GFL073 [WUSCAR] 06155046 (Generated: 04/24/2024 09:27:42) Rev: 1

Submitted By: JOSH MALONEY Page 2 of 2

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