

OIL ANALYSIS REPORT

Sample Rating Trend





421029-402323 Component Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (--- GAL)

hrs hrs ION S ppm ppm ppm ppm	Client Info Client Info Client Info Client Info Client Info WC Method WC Method WC Method WC Method	limit/base >3.0 >0.2 limit/base	GFL0109408 09 Apr 2024 24908 354 Changed NORMAL current <1.0 NEG	GFL0093580 07 Mar 2024 24741 187 Not Changd NORMAL history1 <1.0	GFL010794 05 Feb 2024 24562 600 Changed NORMAL history2 <1.0
hrs ION S ppm ppm ppm	Client Info Client Info Client Info Method WC Method WC Method WC Method ASTM D5185m	>3.0 >0.2	24908 354 Changed NORMAL current <1.0	24741 187 Not Changd NORMAL history1 <1.0	24562 600 Changed NORMAL history2
hrs ION S ppm ppm ppm	Client Info Client Info Method WC Method WC Method WC Method ASTM D5185m	>3.0 >0.2	354 Changed NORMAL current <1.0	187 Not Changd NORMAL history1 <1.0	600 Changed NORMAL history2
ION S ppm ppm ppm	Client Info method WC Method WC Method WC Method ASTM D5185m	>3.0 >0.2	Changed NORMAL current <1.0	Not Changd NORMAL history1 <1.0	Changed NORMAL history2
S ppm ppm ppm	method WC Method WC Method WC Method method ASTM D5185m	>3.0 >0.2	NORMAL current <1.0	NORMAL history1 <1.0	NORMAL history2
S ppm ppm ppm	WC Method WC Method WC Method method ASTM D5185m	>3.0 >0.2	current <1.0	history1 <1.0	history2
S ppm ppm ppm	WC Method WC Method WC Method method ASTM D5185m	>3.0 >0.2	<1.0	<1.0	
ppm ppm ppm	WC Method WC Method method ASTM D5185m	>0.2			<10
ppm ppm ppm	WC Method method ASTM D5185m		NEG		~
ppm ppm ppm	method ASTM D5185m	limit/base		NEG	NEG
ppm ppm ppm	ASTM D5185m	limit/base	NEG	NEG	NEG
ppm ppm			current	history1	history2
ppm	AOTH DELOS	>120	4	3	5
	ASTM D5185m	>20	0	0	<1
mqq	ASTM D5185m	>5	<1	<1	<1
le le rui	ASTM D5185m	>2	<1	<1	<1
ppm	ASTM D5185m	>2	0	0	0
ppm	ASTM D5185m	>20	2	2	2
ppm	ASTM D5185m	>40	0	0	0
ppm	ASTM D5185m	>330	0	0	0
ppm	ASTM D5185m	>15	<1	<1	<1
ppm	ASTM D5185m		0	0	0
ppm	ASTM D5185m		0	0	0
	method	limit/base	current	history1	history2
ppm	ASTM D5185m	0	2	3	4
ppm	ASTM D5185m	0	0	0	0
ppm	ASTM D5185m	60	59	55	57
ppm	ASTM D5185m	0	<1	<1	<1
ppm	ASTM D5185m	1010	958	913	864
ppm		1070	1064	995	918
ppm	ASTM D5185m	1150	1071	1001	930
ppm	ASTM D5185m	1270	1268	1242	1200
ppm	ASTM D5185m	2060	3648	3059	2824
ITS	method	limit/base	current	history1	history2
ppm	ASTM D5185m	>25	4	3	3
ppm	ASTM D5185m		2	2	2
ppm	ASTM D5185m	>20	2	2	0
	method	limit/base	current	history1	history2
%	*ASTM D7844	>4	0.2	0.1	0.3
Abs/cm	*ASTM D7624	>20	7.6	6.3	9.4
Abs/.1mm	*ASTM D7415	>30	18.3	17.7	20.0
DATION	method	limit/base	current	International Action	
				history1	history2
Abs/.1mm	*ASTM D7414	>25	14.6	history1 14.4	history2 16.6
	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ppmASTM D5185mppmASTM D518	ppm ASTM D5185m 0 ppm ASTM D5185m 0 ppm ASTM D5185m 60 ppm ASTM D5185m 0 ppm ASTM D5185m 0 ppm ASTM D5185m 1010 ppm ASTM D5185m 1010 ppm ASTM D5185m 1070 ppm ASTM D5185m 1270 ppm ASTM D5185m 1270 ppm ASTM D5185m 2060 TCS method limit/base ppm ASTM D5185m >25 ppm ASTM D5185m >20 TCS method limit/base ppm ASTM D5185m >20 method limit/base % *ASTM D7844 >4 % *ASTM D7624 >20 % *ASTM D7415 >30	ppm ASTM D5185m 0 2 ppm ASTM D5185m 0 0 ppm ASTM D5185m 60 59 ppm ASTM D5185m 0 <1	ppm ASTM D5185m 0 2 3 ppm ASTM D5185m 0 0 0 ppm ASTM D5185m 60 59 55 ppm ASTM D5185m 0 <1

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.



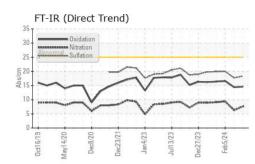
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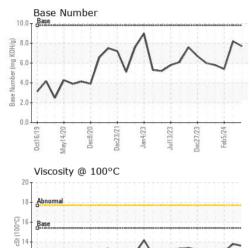
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OIL ANALYSIS REPORT





Jan4/23

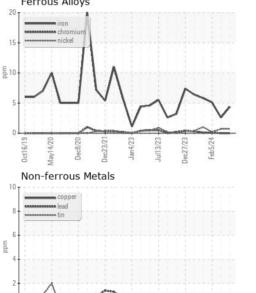
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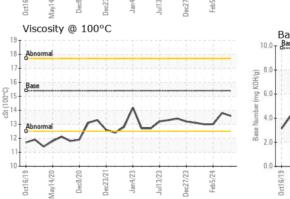
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	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	13.6	13.8	13.0
GRAPHS						

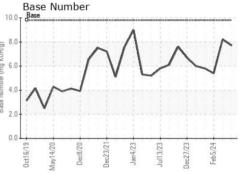
GRAPHS Ferrous Alloys

Feb5/24

Jec27/23







Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 892 - Pauls Valley Hauling Sample No. : GFL0109408 Received : 10 Apr 2024 1910 S CHICKASAW STREET Ê Lab Number : 06145047 Tested : 11 Apr 2024 Pauls Valley, OK US 73075 Unique Number : 10969855 Diagnosed : 11 Apr 2024 - Wes Davis Test Package : FLEET Contact: Tony Graham Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. tgraham2@wcamerica.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: F:

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

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Submitted By: Andy Smith Page 2 of 2