

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (13 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.

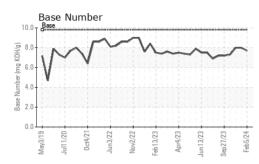
Fluid Condition

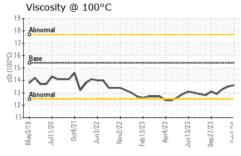
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

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Sample Number	GAL) view outer senter feature and senter feature and senter feature and senter feature and senter feature feature feature and senter feature										
•		Client Info		GFL0109941	GFL0107201	GFL0101209					
		Client Info		05 Feb 2024	18 Jan 2024	22 Nov 2023					
Machine Age	hrs	Client Info		14045	13902	13475					
Oil Age	hrs	Client Info		277	134	286					
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd					
Sample Status				NORMAL	NORMAL	NORMAL					
CONTAMINAT	ION	method	limit/base	current	history1	history2					
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0					
Water		WC Method	>0.2	NEG	NEG	NEG					
Glycol		WC Method		NEG	NEG	NEG					
WEAR METAL	s	method	limit/base	current	history1	history2					
ron	ppm	ASTM D5185m	>75	9	15	8					
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1					
	ppm	ASTM D5185m	>4	0	0	0					
Fitanium Silver	ppm	ASTM D5185m ASTM D5185m	>2	<1 0	0	0					
Aluminum	ppm ppm	ASTM D5185m		2	2	1					
Lead	ppm	ASTM D5185m		0	0	0					
Copper	ppm	ASTM D5185m	>100	<1	<1	<1					
Fin	ppm	ASTM D5185m	>4	<1	0	0					
/anadium	ppm	ASTM D5185m	21	<1	<1	0					
Cadmium	ppm	ASTM D5185m		0	0	0					
ADDITIVES		method	limit/base	current	history1	history2					
Boron	nnm	ASTM D5185m	0	11	7	5					
Barium	ppm ppm	ASTM D5185m		0	0	0					
Volybdenum	ppm	ASTM D5185m	60	59	63	56					
Vanganese	ppm	ASTM D5185m	0	<1	<1	0					
Magnesium	ppm	ASTM D5185m	1010	873	991	873					
Calcium	ppm	ASTM D5185m	1070	1010	1099	1101					
Phosphorus	ppm	ASTM D5185m	1150	974	1083	1016					
Zinc	ppm	ASTM D5185m	1270	1185	1321	1184					
Sulfur	ppm	ASTM D5185m	2060	2931	3314	2791					
CONTAMINAN	TS	method	limit/base	current	history1	history2					
Silicon	ppm	ASTM D5185m	>25	3	5	3					
Sodium	ppm	ASTM D5185m		3	4	5					
Potassium	ppm	ASTM D5185m	>20	0	<1	0					
INFRA-RED		method	limit/base	current	history1	history2					
Soot %	%	*ASTM D7844	>6	0.2	0.2	0.2					
Nitration	Abs/cm	*ASTM D7624	>20	6.1	6.0	6.6					
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.8	17.6	17.7					
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2					
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Oxidation	Abs/.1mm	*ASTM D7414	>25	13.3	13.0	13.4					

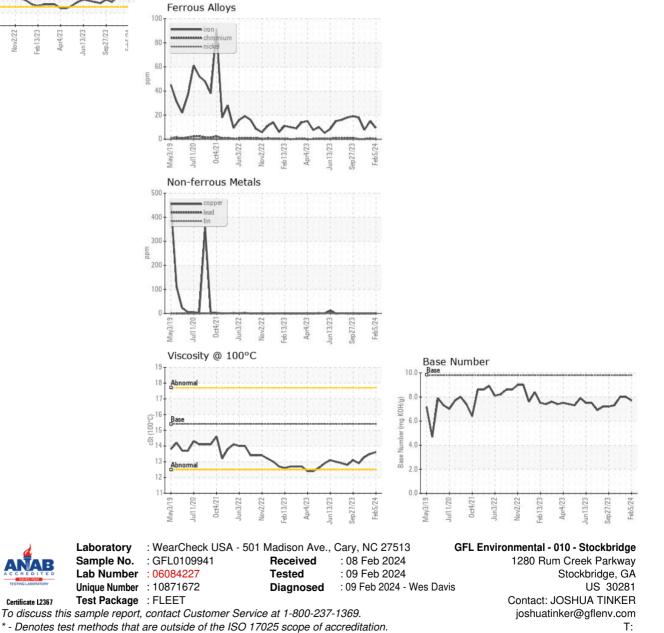


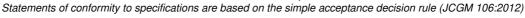
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	13.5	13.3
GRAPHS						





Certificate L2367

Submitted By: JOSHUA TINKER

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