

OIL ANALYSIS REPORT

Sample Rating Trend





Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Fluid

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

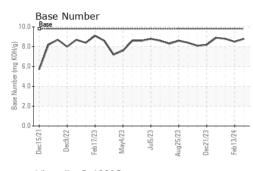
Fluid Condition

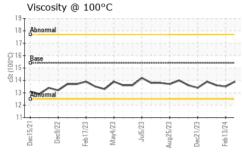
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

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GAL) (#2021 Dec2022 Feb2023 May2023 Jul2023 Aug2023 Feb2024										
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2				
Sample Number		Client Info		GFL0115347	GFL0110882	GFL0110920				
Sample Date		Client Info		05 Mar 2024	13 Feb 2024	01 Feb 2024				
Aachine Age	hrs	Client Info		6927	6778	6692				
Dil Age	hrs	Client Info		149	86	128				
Dil Changed		Client Info		Changed	Changed	Changed				
Sample Status				NORMAL	NORMAL	NORMAL				
CONTAMINAT	ION	method	limit/base	current	history1	history2				
uel		WC Method	>5	<1.0	<1.0	<1.0				
Vater		WC Method	>0.2	NEG	NEG	NEG				
Blycol		WC Method		NEG	NEG	NEG				
WEAR METAL	S	method	limit/base	current	history1	history2				
ron	ppm	ASTM D5185m	>100	6	2	7				
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1				
Nickel	ppm	ASTM D5185m	>4	0	0	<1				
Fitanium	ppm	ASTM D5185m		<1	0	<1				
Silver	ppm	ASTM D5185m	>3	<1	0	0				
Aluminum	ppm	ASTM D5185m	>20	2	3	3				
ead	ppm	ASTM D5185m	>40	2	0	<1				
Copper	ppm	ASTM D5185m	>330	<1	0	<1				
Tin	ppm	ASTM D5185m	>15	1	0	<1				
/anadium	ppm	ASTM D5185m		<1	0	<1				
Cadmium	ppm	ASTM D5185m		<1	0	<1				
ADDITIVES		method	limit/base	current	history1	history2				
Boron	ppm	ASTM D5185m	0	13	10	12				
Barium	ppm	ASTM D5185m	0	0	0	0				
Molybdenum	ppm	ASTM D5185m	60	56	59	57				
Manganese	ppm	ASTM D5185m	0	<1	0	<1				
Magnesium	ppm	ASTM D5185m	1010	968	900	888				
Calcium	ppm	ASTM D5185m	1070	1128	981	1053				
Phosphorus	ppm	ASTM D5185m	1150	1018	1006	1123				
Zinc	ppm	ASTM D5185m	1270	1287	1199	1125				
Sulfur	ppm	ASTM D5185m	2060	3860	2966	3425				
CONTAMINAN	ITS	method	limit/base	current	history1	history2				
Silicon	ppm	ASTM D5185m	>25	3	3	4				
Sodium	ppm	ASTM D5185m		5	4	7				
Potassium	ppm	ASTM D5185m	>20	4	1	4				
		method	limit/base	current	history1	history2				
INFRA-RED		*ASTM D7844	>3	0.2	0.3	0.3				
	%	1011101011								
Soot %	% Abs/cm	*ASTM D7624	>20	5.8	6.5	6.2				
INFRA-RED Soot % Nitration Sulfation			>20 >30	5.8 18.0	6.5 18.6	6.2 18.3				
Soot % Nitration	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415		18.0						
Soot % Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>30	18.0	18.6	18.3				

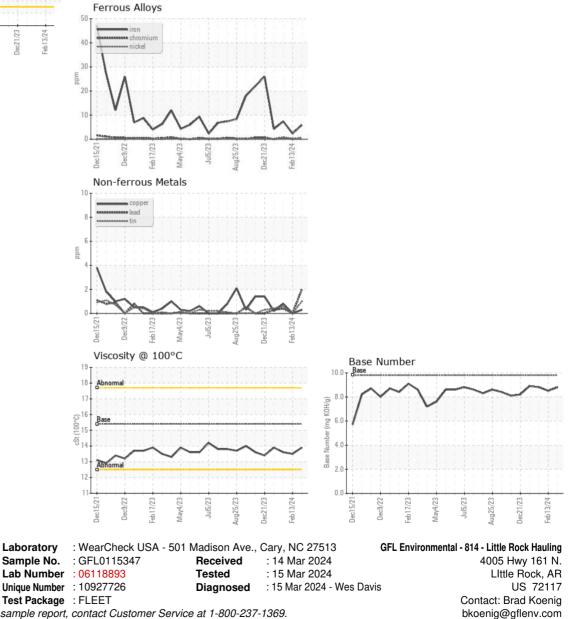


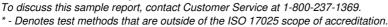
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	13.9	13.5	13.6
GRAPHS						





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

Certificate L2367

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