

OIL ANALYSIS REPORT

Sample Rating Trend





Component

Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (--- 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.

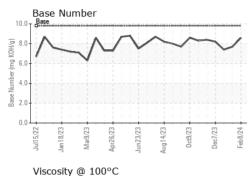
Fluid Condition

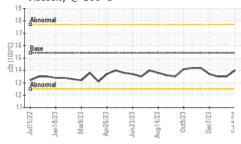
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

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SAMPLE INFOR	MATION	method	limit/base	current	history1	history2				
Sample Number		Client Info		GFL0110917	GFL0090937	GFL0103001				
Sample Date		Client Info		08 Feb 2024	28 Dec 2023	14 Dec 2023				
Machine Age	hrs	Client Info		6136	5858	4496				
Oil Age	hrs	Client Info		278	136	5722				
Oil Changed		Client Info		Changed	Changed	Changed				
Sample Status				NORMAL	NORMAL	NORMAL				
CONTAMINAT	ION	method	limit/base	current	history1	history2				
Fuel		WC Method	>5	<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				
Iron	ppm	ASTM D5185m	>100	6	6	15				
Chromium	ppm	ASTM D5185m	>20	<1	0	<1				
Nickel	ppm	ASTM D5185m	>4	0	0	0				
Titanium	ppm	ASTM D5185m		<1	0	<1				
Silver	ppm	ASTM D5185m	>3	0	0	0				
Aluminum	ppm	ASTM D5185m	>20	2	2	4				
_ead	ppm	ASTM D5185m	>40	0	0	<1				
Copper	ppm	ASTM D5185m	>330	<1	2	2				
Tin	ppm	ASTM D5185m	>15	<1	<1	<1				
Vanadium	ppm	ASTM D5185m		0	0	<1				
Cadmium	ppm	ASTM D5185m		0	0	0				
ADDITIVES		method	limit/base	current	history1	history2				
Boron	ppm	ASTM D5185m	0	9	<1	0				
Barium	ppm	ASTM D5185m	0	0	0	0				
Molybdenum	ppm	ASTM D5185m	60	60	61	60				
Vanganese	ppm	ASTM D5185m	0	<1	0	<1				
Magnesium	ppm	ASTM D5185m	1010	1002	1034	952				
Calcium	ppm	ASTM D5185m	1070	1057	1093	984				
Phosphorus	ppm	ASTM D5185m	1150	1077	1116	966				
Zinc	ppm	ASTM D5185m	1270	1253	1360	1276				
Sulfur	ppm	ASTM D5185m	2060	3209	3260	2943				
CONTAMINAN	ITS	method	limit/base	current	history1	history2				
Silicon	ppm	ASTM D5185m	>25	3	4	9				
Sodium	ppm	ASTM D5185m		8	<1	2				
Potassium	ppm	ASTM D5185m	>20	1	<1	3				
INFRA-RED		method	limit/base	current	history1	history2				
Soot %	%	*ASTM D7844	>3	0.2	0.3	0.3				
Nitration	Abs/cm	*ASTM D7624	>20	6.2	7.5	7.3				
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	18.7	19.2				
FLUID DEGRAI		method	limit/base	current	history1	history2				
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	14.9	14.6				
UXIUALIUII	AUS/. 111111			17.1	14.0	14.0				

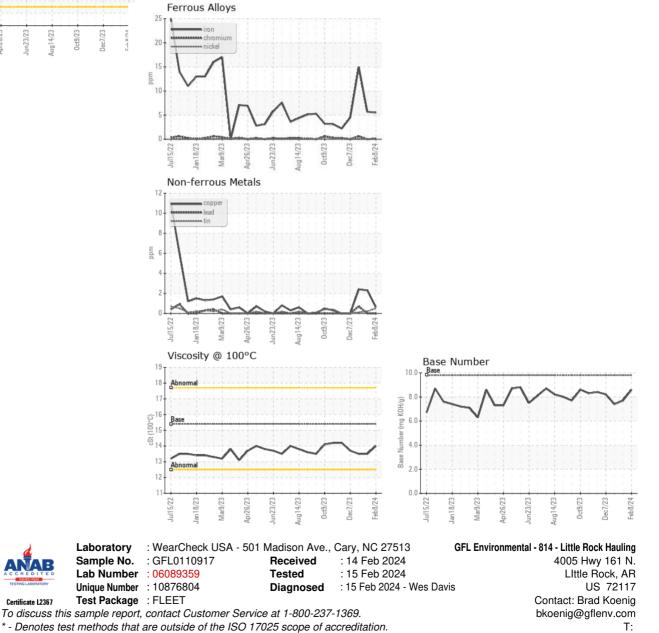


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	14.0	13.5	13.5
GRAPHS						



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

Certificate L2367

Submitted By: Nicole Walls Page 2 of 2

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