

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.

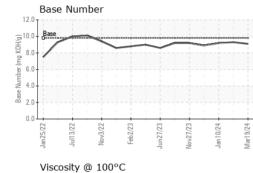
Fluid Condition

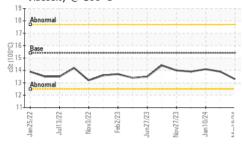
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

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AL)		Jan2022 Ju ¹	12022 Nov2022 Feb2 ⁴	023 Jun2023 Nov2023 Jan20	24 Mar2024	
SAMPLE INFORM	MATION		limit/base		history1	history2
Sample Number		Client Info		GFL0110573	GFL0100270	GFL0100216
Sample Date		Client Info		19 Mar 2024	01 Feb 2024	10 Jan 2024
Machine Age	mls	Client Info		445391	443896	600
Dil Age	mls	Client Info		400	0	600
Dil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	e 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	e current	history1	history2
ron	ppm	ASTM D5185m	>80	8	1	2
Chromium	ppm	ASTM D5185m	>5	1	<1	0
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>30	2	<1	<1
_ead	ppm	ASTM D5185m	>30	1	0	0
Copper	ppm	ASTM D5185m	>150	1	0	2
Tin	ppm	ASTM D5185m	>5	1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	e current	history1	history2
Boron	ppm	ASTM D5185m	0	7	8	4
Barium	ppm	ASTM D5185m		1	0	0
Volybdenum	ppm	ASTM D5185m	60	63	60	60
Vanganese	ppm	ASTM D5185m	0	<1	0	0
Magnesium	ppm	ASTM D5185m	1010	930	979	968
Calcium	ppm	ASTM D5185m	1070	1082	989	1023
Phosphorus	ppm	ASTM D5185m	1150	979	1103	1055
Zinc	ppm	ASTM D5185m	1270	1183	1284	1264
Sulfur	ppm	ASTM D5185m	2060	3044	3157	3129
CONTAMINAN	TS	method	limit/base	e current	history1	history2
Silicon	ppm	ASTM D5185m	>20	5	2	3
Sodium	ppm	ASTM D5185m		6	2	1
Potassium	ppm	ASTM D5185m	>20	2	0	0
INFRA-RED		method	limit/base	e current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.1	0.1
Nitration	Abs/cm	*ASTM D7624		5.5	4.8	4.5
Sulfation	Abs/.1mm	*ASTM D7415		17.7	17.6	17.2
FLUID DEGRAD	DATION	method	limit/base	e current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.5	13.3	13.1
JAIdation	mg KOH/g	ASTM D7414 ASTM D2896		9.1	9.3	9.2

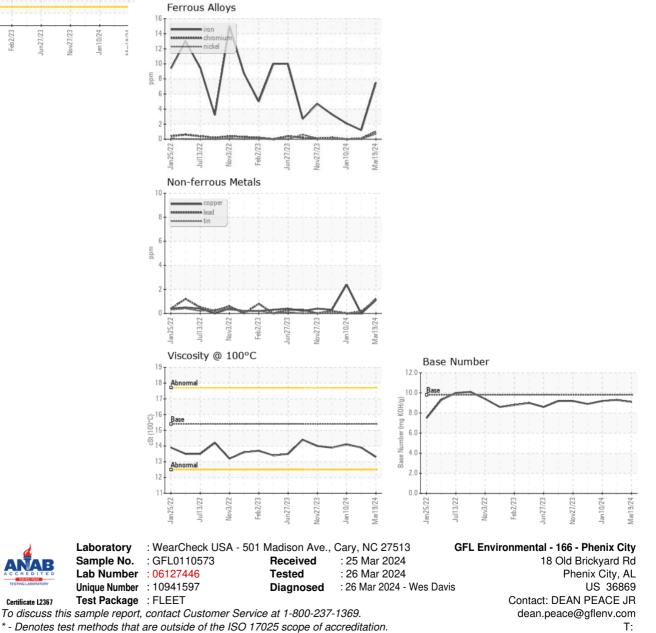


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VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
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	13.3	13.9	14.1
GRAPHS						



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

Certificate L2367

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