

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 INFORM	MATION	method	limit/base	atozz Apitozz Smotozz current	history1	history2
Sample Number	VINTER	Client Info		GFL0102820	GFL0102774	GFL0090515
Sample Date		Client Info		07 Dec 2023	21 Nov 2023	18 Sep 2023
Machine Age	hrs	Client Info		13454	13337	12872
Oil Age	hrs	Client Info		582	465	582
Oil Changed	TH O	Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	-	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	11	7	8
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	1	0
_ead	ppm	ASTM D5185m	>40	<1	2	<1
Copper	ppm	ASTM D5185m	>330	2	1	2
Γin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	6	5
Barium	ppm	ASTM D5185m	0	0	0	0
Nolybdenum	ppm	ASTM D5185m	60	62	57	61
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Vagnesium	ppm	ASTM D5185m	1010	902	847	999
Calcium	ppm	ASTM D5185m	1070	1034	1029	1127
Phosphorus	ppm	ASTM D5185m	1150	1007	1040	1055
Zinc	ppm	ASTM D5185m	1270	1218	1180	1302
Sulfur	ppm	ASTM D5185m	2060	3145	2925	3688
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	4	3
Sodium	ppm	ASTM D5185m		3	4	3
Potassium	ppm	ASTM D5185m	>20	1	1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.0	7.6	7.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	19.2	19.0
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	15.0	14.9
Base Number (BN)	mg KOH/g		9.8	7.9	8.3	8.6
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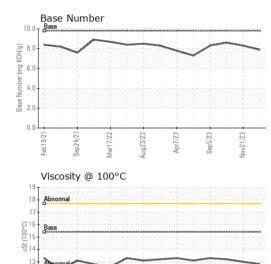
Sep24/21

Mar17/22

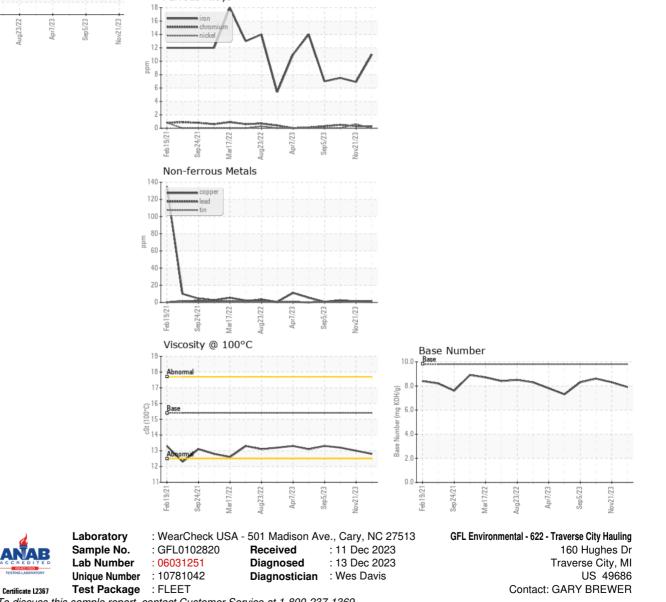
Aug 23/22

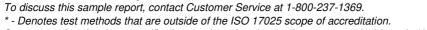
Feb 19/21

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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	12.8	13.0	13.2
GRAPHS						
Ferrous Alloys						





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

Submitted By: TECHNICIAN ACCOUNT

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