

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 729062-362015

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

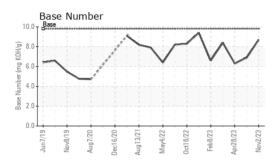
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

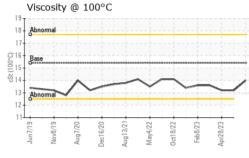
AL)		un2019 Nov201	9 Aug2020 Dec2020 Aug2	021 May2022 Oct2022 Feb2023 Ap	r2023 Nov202	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date		Client Info Client Info		GFL0094251 02 Nov 2023	GFL0085379 21 Jul 2023	GFL0077344 28 Apr 2023
Machine Age Oil Age	hrs hrs	Client Info Client Info		11523 0	10914 10914	10340 10340
Dil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	0.0
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>75	5	22	14
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m		<1	0	0
Fitanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>15	2	5	0
ead	ppm	ASTM D5185m	>25	<1	0	<1
Copper	ppm	ASTM D5185m	>100	<1	1	<1
ïn	ppm	ASTM D5185m	>4	0	0	<1
/anadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	23	3	<1
Barium	ppm	ASTM D5185m	0	5	3	0
Nolybdenum	ppm	ASTM D5185m	60	52	83	66
<i>l</i> langanese	ppm	ASTM D5185m	0	<1	<1	<1
<i>l</i> lagnesium	ppm	ASTM D5185m	1010	580	1017	765
Calcium	ppm	ASTM D5185m	1070	1398	1439	1248
hosphorus	ppm	ASTM D5185m	1150	836	1243	988
Zinc	ppm	ASTM D5185m	1270	930	1489	1235
Sulfur	ppm	ASTM D5185m	2060	2264	3903	2975
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	0	5
Sodium	ppm	ASTM D5185m		14	69	93
Potassium	ppm	ASTM D5185m	>20	13	37	10
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.2	0.8	0.6
Nitration	Abs/cm	*ASTM D7624	>20	7.1	10.2	9.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	21.6	19.2
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.9	17.9	16.6



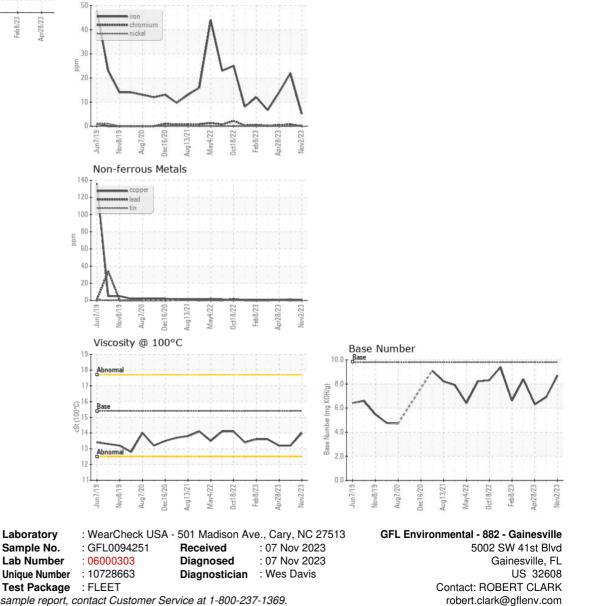
OIL ANALYSIS REPORT

Ferrous Alloys





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	13.2	13.2
GRAPHS						



To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

Certificate L2367

Submitted By: STEPHEN WEIL

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