

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL





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	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
	Sample Number		Client Info		GFL0115356	GFL0115347	GFL0110882
r.	Sample Date		Client Info		14 Mar 2024	05 Mar 2024	13 Feb 2024
	Machine Age	hrs	Client Info		6987	6927	6778
	Oil Age	hrs	Client Info		60	149	86
	Oil Changed		Client Info		Changed	Changed	Changed
е	Sample Status				NORMAL	NORMAL	NORMAL
C	CONTAMINAT		method	limit/base	current	history1	history2
	Fuel		WC Method	>5	<1.0	<1.0	<1.0
е	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	WEAR METALS		method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>100	10	6	2
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>4	<1	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>3	0	<1	0
	Aluminum	ppm	ASTM D5185m	>20	4	2	3
	Lead	ppm	ASTM D5185m		<1	2	0
	Copper	ppm	ASTM D5185m		2	<1	0
	Tin	ppm	ASTM D5185m		_ <1	1	0
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	Cadmium	ppm	ASTM D5185m		<1	<1	0
	ADDITIVES	le le	method	limit/base	current	history1	history2
	Boron	ppm		0	17	13	10
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	60	66	56	59
	Manganese	ppm		0	<1	<1	0
	Magnesium	ppm	ASTM D5185m	1010	1008	968	900
	Calcium	ppm	ASTM D5185m	1070	1220	1128	981
	Phosphorus	ppm	ASTM D5185m	1150	1152	1018	1006
	Zinc	ppm	ASTM D5185m	1270	1302	1287	1199
	Sulfur	ppm	ASTM D5185m	2060	3497	3860	2966
	CONTAMINAN	TS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	5	3	3
	Sodium	ppm	ASTM D5185m		10	5	4
	Potassium	ppm	ASTM D5185m	>20	6	4	1
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>3	0.2	0.2	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	5.9	5.8	6.5
	Sulfation	Abs/.1mm	*ASTM D7415		18.1	18.0	18.6
	FLUID DEGRA	DAT <u>IO</u> N	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.8	13.8	14.2
	Base Number (BN)	mg KOH/g	ASTM D2896		8.7	8.8	8.5
	Dase Number (DN)	ing NOTI/g	A01101 D2030	5.0	0.7	0.0	0.0

Machine Id 811043

Component **Diesel Engine** Fluid

PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monit

Wear

All component wear rates are normal.

Contamination

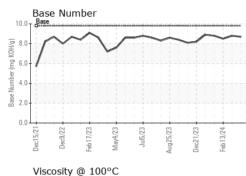
There is no indication of any contamination in oil.

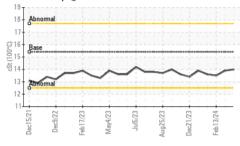
Fluid Condition

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

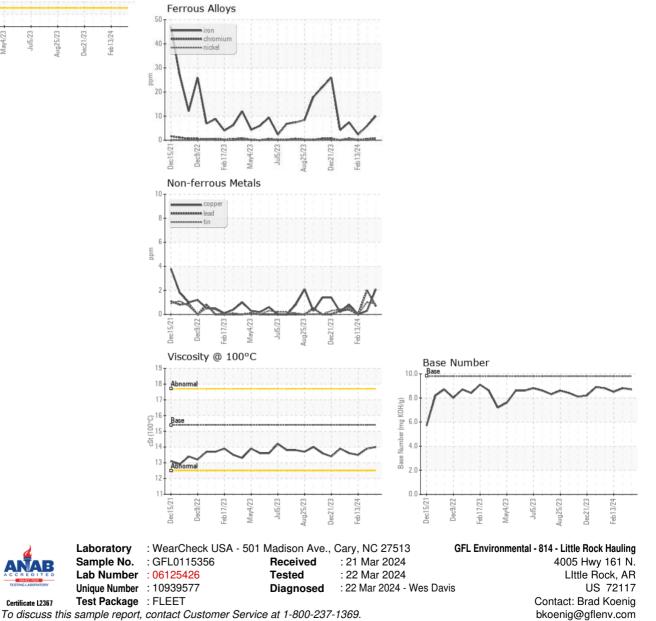


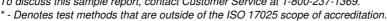
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar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





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

Certificate L2367

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