

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL





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	SAMPLE INFOR			limit/base		history1	history2
	Sample Number		Client Info		GFL0103812	GFL0076962	GFL0091179
litor.	Sample Date		Client Info		31 Jan 2024	24 Nov 2023	17 Aug 2023
	Machine Age	hrs	Client Info		18994	18775	0
	Oil Age	hrs	Client Info		797	797	600
	Oil Changed		Client Info		Changed	Changed	Not Changd
the	Sample Status				NORMAL	NORMAL	NORMAL
	CONTAMINAT	ION	method	limit/base	current	history1	history2
	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
the	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	>75	19	10	7
	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm		>15	2	2	2
	Lead	ppm		>25	- <1	0	0
	Copper	ppm	ASTM D5185m		1	0	<1
	Tin	ppm	ASTM D5185m	>4	، <1	<1	0
	Vanadium		ASTM D5185m	24	0	0	0
	Cadmium	ppm ppm	ASTM D5185m		0	0	0
	ADDITIVES	ppm	method	limit/base	current	history1	history2
	Boron	ppm		0	5	6	5
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	60	56	56	61
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	836	885	909
	Calcium	ppm		1070	976	1037	1118
	Phosphorus	ppm	ASTM D5185m	1150	989	1012	1022
	Zinc	ppm	ASTM D5185m	1270	1145	1209	1220
	Sulfur	ppm	ASTM D5185m	2060	2918	2909	3385
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	4	4	3
	Sodium	ppm	ASTM D5185m		11	4	2
	Potassium	ppm	ASTM D5185m	>20	10	2	2
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>6	1.9	0.6	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	8.0	7.0	5.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	19.5	17.9
	FLUID DEGRA		method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.8	14.4	13.5
	Base Number (BN)		ASTM D2896		9.8	9.0	8.9
				5.0	0.0	0.0	0.0

Area **020** 3677 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (34 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to mon

Wear

All component wear rates are normal.

Contamination

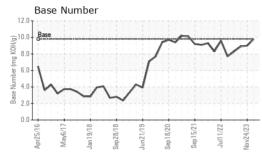
There is no indication of any contamination in oil.

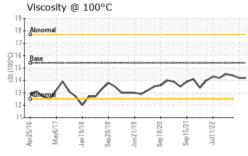
Fluid Condition

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

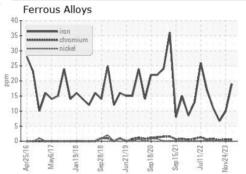


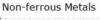
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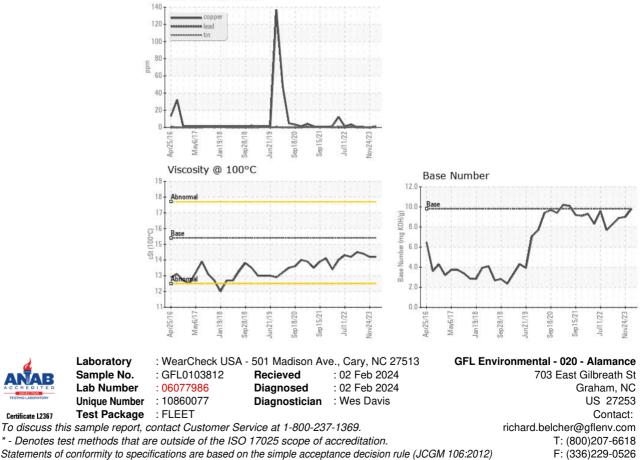




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	14.2	14.2	14.4
GRAPHS						







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

Submitted By: JEREMY SHORES