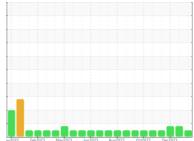


OIL ANALYSIS REPORT

Sample Rating Trend





NORMAL

•	GAL)		ov2022 Feb	2023 May2023 Jun2	023 Aug2023 Oct2023 D	ec2023	
	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
	Sample Number		Client Info		GFL0110873	GFL0046914	GFL009097
e interval to monitor.	Sample Date		Client Info		12 Feb 2024	19 Jan 2024	28 Dec 2023
	Machine Age	hrs	Client Info		3247	3088	3009
e normal.	Oil Age	hrs	Client Info		159	79	140
	Oil Changed		Client Info		Changed	Changed	Changed
ontamination in the	Sample Status				NORMAL	ABNORMAL	ABNORMAL
	CONTAMINATI	ON	method	limit/base	current	history1	history2
nere is suitable The condition of the ce.	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 METALS	5	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>100	0	10	7
	Chromium	ppm	ASTM D5185m	>20	<1	1	<1
	Nickel	ppm	ASTM D5185m		1	6	5
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		<1	4	2
	Lead	ppm	ASTM D5185m		0	<1	<1
	Copper	ppm	ASTM D5185m		<1	4	2
	Tin	ppm	ASTM D5185m		0	1	<1
	Vanadium		ASTM D5185m	>15	0	0	0
	Cadmium	ppm ppm	ASTM D5185m		0	<1	0
	ADDITIVES	le le	method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m		7	2	4
	Barium	ppm	ASTM D5185m		0	0	0
						57	59
	Molybdenum	ppm		60	54		
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm		1010	874	931	1032
	Calcium	ppm	ASTM D5185m		965	1007	1111
	Phosphorus	ppm		1150	955	990	1070
	Zinc	ppm		1270	1163	1203	1315
	Sulfur	ppm	ASTM D5185m	2060	2952	3092	3194
	CONTAMINAN		method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	2	7	6
	Sodium	ppm	ASTM D5185m		0	4	2
	Potassium	ppm	ASTM D5185m	>20	0	6	4
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>3	0.1	0.3	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	5.9	8.4	7.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	19.2	19.2
	FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	15.6	15.5

Machine Id 413024

Component Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next serv

Wear

All component wear rates

Contamination

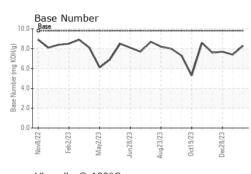
There is no indication of an oil.

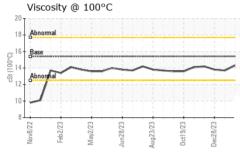
Fluid Condition

The BN result indicates that alkalinity remaining in the c oil is suitable for further set



OIL ANALYSIS REPORT





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	14.3	13.7	13.8
GRAPHS						

Ferrous Alloys

