

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 12008

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (8 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.

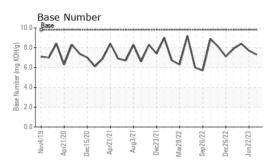
AL)						
		v2019 Apr202	0 Dec2020 Apr2021 Aug20	121 Dec2021 Mar2022 Sep2022 Dec2	022 Jun2023	
SAMPLE INFOR	RMATIO	N method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0087780	GFL0082230	GFL0082215
Sample Date		Client Info		01 Sep 2023	22 Jun 2023	12 May 2023
Machine Age	hrs	Client Info		14320	13800	13652
Oil Age	hrs	Client Info		520	1065	300
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
		method	limit/base	ourroot	biotomut	biotory ()
CONTAMINA					history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	7	13	10
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>50	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>50	<1	<1	<1
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	5	4	5
Barium	ppm	ASTM D5185m	0	0	0	2
Molybdenum	ppm	ASTM D5185m	60	56	69	65
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	877	976	908
Calcium	ppm	ASTM D5185m	1070	1089	1203	1189
Phosphorus	ppm	ASTM D5185m	1150	1031	1147	1066
Zinc	ppm	ASTM D5185m	1270	1230	1384	1261
Sulfur	ppm	ASTM D5185m	2060	3552	3539	3129
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	4	4
00011	PPIII			~		

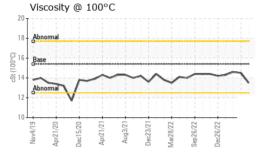
CONTAMINAN	IS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	4	4
Sodium	ppm	ASTM D5185m		3	2	4
Potassium	ppm	ASTM D5185m	>20	0	1	1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>5	0.3	0.5	0.4
Nitration	Abs/cm	*ASTM D7624	>20	6.5	9.2	8.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.5	21.1	20.4
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.0	18.2	16.6
Base Number (BN)	ma KOH/a	ASTM D2896	9.8	7.3	7.7	8.4

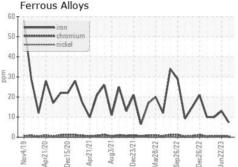


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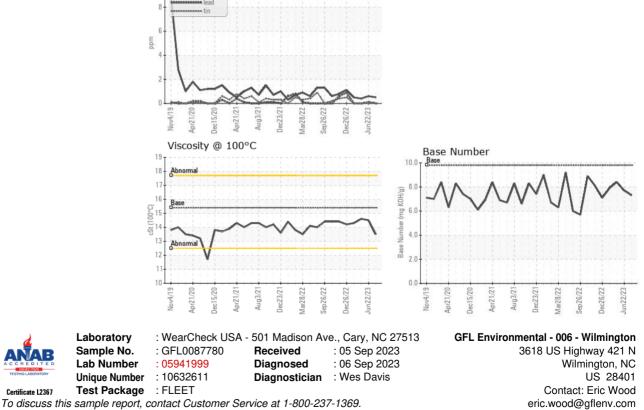


VISUAL		method	limit/base	current	history1	history2
VISUAL		method	IIIIII/Dase	current	TIISTOLA I	TIIStOF y2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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
			11 11 11			
FLUID PROPE	RHES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	14.5	14.6
GRAPHS						
Forrous Allovs						





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* - 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)

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