

OIL ANALYSIS REPORT

Area (YA150031) 020 10961

Diesel Engine

Fluic

PETRO CANADA DURON SHP 15W40 (34 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

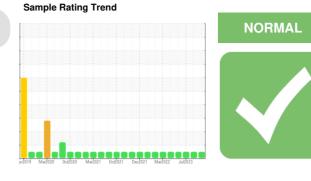
All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

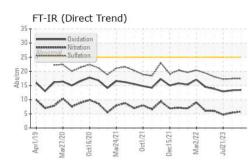
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

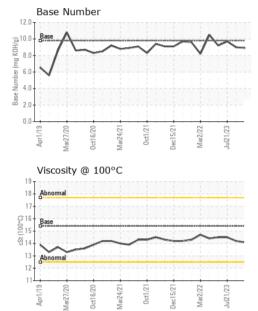


SAMPLE INFORM	/ ATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0117843	GFL0103798	GFL0076967			
Sample Date		Client Info		24 May 2024	07 Dec 2023	21 Jul 2023			
Machine Age	hrs	Client Info		11683	11224	4485			
Oil Age	hrs	Client Info		696	688	600			
Oil Changed		Client Info		Changed	Changed	Not Changd			
Sample Status				NORMAL	NORMAL	NORMAL			
CONTAMINATI	ON	method	limit/base	current	history1	history2			
			>3.0		<1.0	<1.0			
Fuel		WC Method		<1.0 NEG					
Water		WC Method	>0.2		NEG	NEG			
Glycol		WC Method		NEG	NEG	NEG			
WEAR METALS	S	method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m	>75	5	2	2			
Chromium	ppm	ASTM D5185m	>5	<1	0	0			
Nickel	ppm	ASTM D5185m	>4	0	0	0			
Titanium	ppm	ASTM D5185m	>2	<1	0	0			
Silver	ppm	ASTM D5185m	>2	<1	0	0			
Aluminum	ppm	ASTM D5185m	>15	2	<1	<1			
Lead	ppm	ASTM D5185m	>25	<1	<1	0			
Copper	ppm	ASTM D5185m	>100	2	<1	0			
Tin	ppm	ASTM D5185m	>4	<1	0	<1			
Vanadium	ppm	ASTM D5185m		<1	<1	0			
Cadmium	ppm	ASTM D5185m		<1	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	0	7	4	10			
Barium	ppm	ASTM D5185m	0	0	0	0			
Molybdenum	ppm	ASTM D5185m	60	62	56	63			
Manganese	ppm	ASTM D5185m	0	<1	0	<1			
Magnesium	ppm	ASTM D5185m	1010	995	906	1024			
Calcium	ppm	ASTM D5185m	1070	1209	1052	1188			
Phosphorus	ppm	ASTM D5185m	1150	1156	1010	1135			
Zinc	ppm	ASTM D5185m	1270	1359	1268	1360			
Sulfur	ppm	ASTM D5185m	2060	3977	2633	4155			
CONTAMINAN	TS	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>25	7	9	3			
Sodium	ppm	ASTM D5185m		3	<1	<1			
Potassium	ppm	ASTM D5185m	>20	2	0	0			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>6	0.2	0.1	0.1			
Nitration	Abs/cm	*ASTM D7624		5.8	5.4	4.7			
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.4	17.4	17.2			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414	>25	13.4	13.3	12.9			
Dase Number (BN)	mg KOH/g	ASTM D2896	9.8	8.9	9.0	9.7			



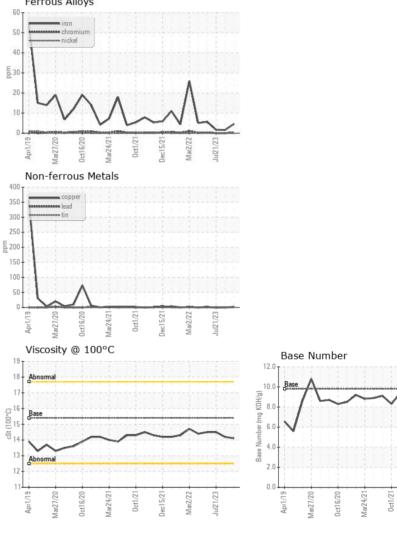
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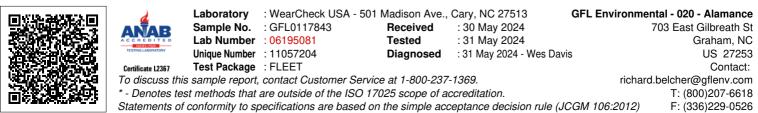




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	14.1	14.2	14.5
GRAPHS						

Ferrous Alloys





Submitted By: JEREMY SHORES

Dec15/21-

Mar2/22

ul21/23