

OIL ANALYSIS REPORT

Area (43316HA) 426030-4031

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

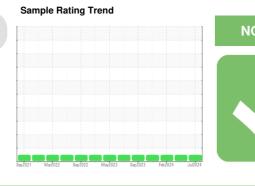
Contamination

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.

.TR)		Sep2021	Mar2022 Sep2022	May2023 Sep2023 Feb2024	Jui2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0112733	GFL0091848	GFL0112792
Sample Date		Client Info		06 Jul 2024	04 May 2024	29 Feb 2024
Machine Age	mls	Client Info		19440	18982	18549
Oil Age	mls	Client Info		327684	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
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 METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	7	6	12
Chromium	ppm	ASTM D5185m	>20	، <1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	3	2	2
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	<1	1	1
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	11	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	57	55	62
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	925	841	965
Calcium	ppm	ASTM D5185m	1070	1034	1060	1081
Phosphorus	ppm	ASTM D5185m	1150	1017	990	994
Zinc	ppm	ASTM D5185m		1194	1153	1215
Sulfur	ppm	ASTM D5185m	2060	2894	3646	3137
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	4	5
Sodium	ppm	ASTM D5185m	00	<1	0	1
Potassium	ppm	ASTM D5185m		2	4	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.2	0.2
Nitration	Abs/cm	*ASTM D7624		5.7	5.6	6.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	17.8	18.0
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.6	13.3	14.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.2	8.7	9.0

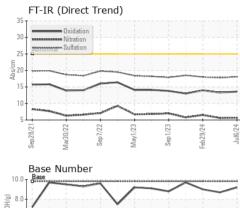


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NORMAL

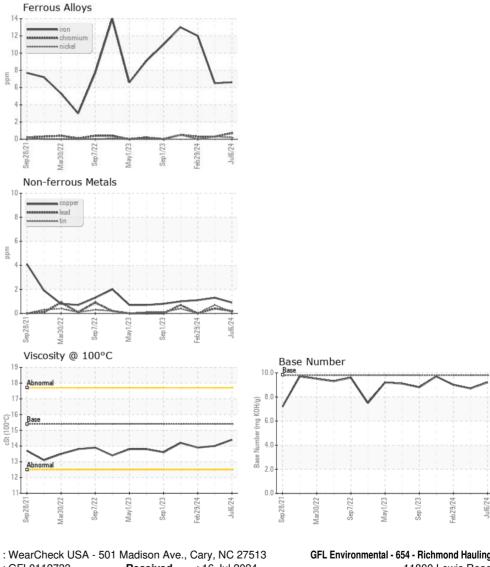


OIL ANALYSIS REPORT



Base	e Numb	er					
				\checkmark			
(b) 8.0 0.0 (b) KOH(0)							
Sep 28/21	Mar30/22	Sep7/22 -	May1/23 -	Sep1/23 -	Feb29/24	N Cr 311	
Visco 19 18 Abnor 17		100°C					maa
() 16 Base (1) 15 ts 14		_		_		_	
12	Mar30/22	Sep 7/22	May1/23	Sep 1/23	Feb29/24	Net al. 1	

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	14.4	14.0	13.9
GRAPHS						





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