

OIL ANALYSIS REPORT

Area (E031HW) 2824

Diesel Engine

PETRO CANADA DURON SHP 15W40 (40 GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

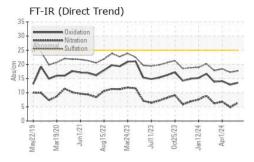
Fluid Condition

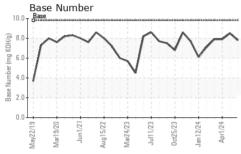
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

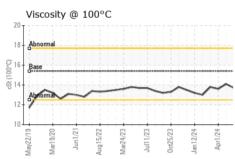
SAMPLE INFORMA	ΔΤΙΩΝ	method	limit/base	current	history1	history2
	ATION		IIIIII/Dase		•	
Sample Number Sample Date		Client Info		GFL0098899 06 May 2024	GFL0098894 09 Apr 2024	GFL0099019 01 Apr 2024
	hrs	Client Info		9230	9074	9032
-	hrs	Client Info		9230	8776	8776
Oil Age Oil Changed	1115	Client Info		9230 N/A	Changed	Changed
Sample Status		Ciletit iiiio		NORMAL	NORMAL	NORMAL
	201		11 11 11			
CONTAMINATIO	JN	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
	ppm	ASTM D5185m	>165	8	5	11
Chromium	ppm	ASTM D5185m	>5	0	<1	1
Nickel	ppm	ASTM D5185m	>4	0	1	1
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	1	1	1
Lead	ppm	ASTM D5185m	>150	0	1	1
Copper	ppm	ASTM D5185m	>90	0	1	2
Tin p	ppm	ASTM D5185m	>5	0	1	1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	1	1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum p	ppm	ASTM D5185m	60	57	55	55
Manganese p	ppm	ASTM D5185m	0	0	1	1
Magnesium p	ppm	ASTM D5185m	1010	923	847	851
Calcium	ppm	ASTM D5185m	1070	1122	1051	1061
Phosphorus p	ppm	ASTM D5185m	1150	1023	1051	1063
Zinc	ppm	ASTM D5185m	1270	1234	1129	1159
Sulfur	ppm	ASTM D5185m	2060	3415	3450	3388
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	6	4	4
Sodium	ppm	ASTM D5185m		3	2	4
Potassium	ppm	ASTM D5185m	>20	<1	2	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.2	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.4	4.9	6.8
	Abs/.1mm	*ASTM D7415	>30	17.7	17.2	18.4
FLUID DEGRADA	MOITA	method	limit/base	current	history1	history2
Oxidation /	Abs/.1mm	*ASTM D7414	>25	13.5	12.8	14.1
	mg KOH/g	ASTM D2896	9.8	7.8	8.5	7.9
- acc tallion Dit/	9 1101119		0.0	7.0	0.0	7.0



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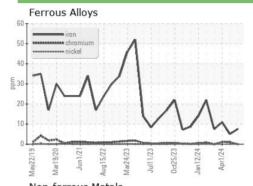


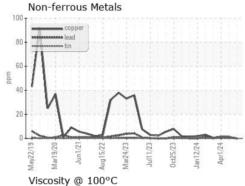


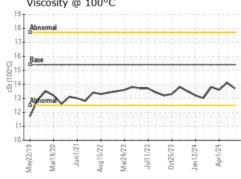
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

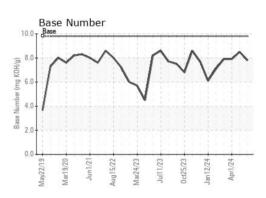
FLUID PROPI	EHILO	method			riistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	14.1	13.6

GRAPHS













Certificate 12367

Laboratory Sample No. Lab Number : 06187478 Unique Number : 11044230

: GFL0098899

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 22 May 2024

Tested : 23 May 2024 Diagnosed

: 23 May 2024 - Wes Davis

GFL Environmental - 084 - Clarksville 699 Jack Miller Boulevard

Clarksville, TN US 37042

T: (931)552-7276

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Contact: ROBERT THIBAULT robert.thibault@gflenv.com

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - 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)