

OIL ANALYSIS REPORT

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NORMAL

Area (DXE797) 10589

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.

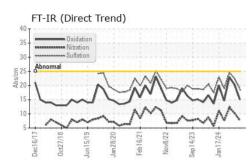
Fluid Condition

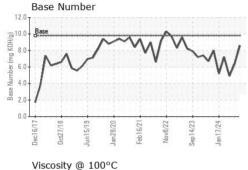
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

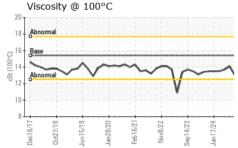
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SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0089616	GFL0089618	GFL0089621
Sample Date		Client Info		12 Jul 2024	17 May 2024	24 Apr 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	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 METALS	5	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	11	53	75
Chromium	ppm	ASTM D5185m	>20	<1	2	2
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	5	4	7
Lead	ppm	ASTM D5185m	>40	0	<1	2
Copper	ppm	ASTM D5185m	>330	<1	3	4
Tin	ppm	ASTM D5185m	>15	0	<1	1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	2	5
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	61	64	101
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	980	919	1496
Calcium	ppm	ASTM D5185m	1070	1089	1056	1658
Phosphorus	ppm	ASTM D5185m	1150	941	937	1745
Zinc	ppm	ASTM D5185m	1270	1267	1228	1980
Sulfur	ppm	ASTM D5185m	2060	2897	2605	4333
CONTAMINAN	ΓS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	10	16
Sodium	ppm	ASTM D5185m		0	10	17
Potassium	ppm	ASTM D5185m	>20	6	4	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.7	1
Nitration	Abs/cm	*ASTM D7624	>20	7.6	10.2	12.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	22.4	24.6
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.0	20.2	23.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6	6.4	4.9
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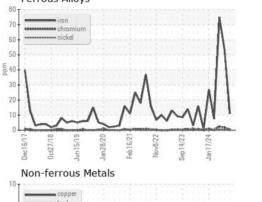


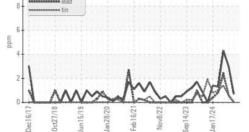


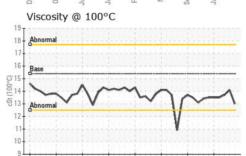


VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	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	13.0	14.1	13.7
GRAPHS						

Ferrous Alloys



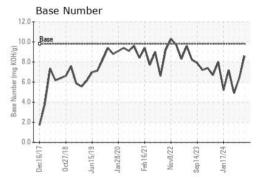




ah16/71

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Jan 17/24



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 732 - Thomaston Hauling Sample No. : GFL0089616 Received : 16 Jul 2024 2616 Waynmansville Road Lab Number : 06237624 Tested : 17 Jul 2024 Thomaston, GA US 30286 Unique Number : 11126458 Diagnosed : 17 Jul 2024 - Wes Davis Test Package : FLEET Contact: WILLIAM BROWN Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. william.brown@gflenv.com T: (706)936-4065 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. F:

Jun 15/19

an28/20

Oct27/18

 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

 Report Id: GFL732 [WUSCAR] 06237624 (Generated: 07/17/2024 08:54:28) Rev: 1
 Submittee

Dec16/17

Submitted By: WILLIAM BROWN

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