

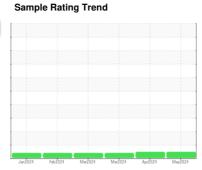
OIL ANALYSIS REPORT



Area (61AATE6) 214010 Component

Diesel Engine

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





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

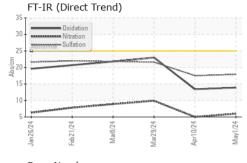
Fluid Condition

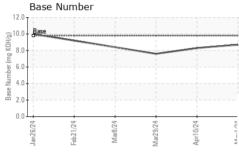
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

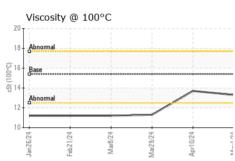
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0115834	GFL0115848	GFL0113712
Sample Date		Client Info		01 May 2024	10 Apr 2024	29 Mar 2024
Machine Age	hrs	Client Info		677	666	531
Oil Age	hrs	Client Info		146	0	531
Oil Changed	0	Client Info		Not Changd	N/A	Changed
Sample Status				NORMAL	NORMAL	ATTENTION
CONTAMINATION	NC	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water				<1.0 NEG	NEG	NEG
		WC Method	>0.2	-		
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	5	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	14	6	66
Chromium	ppm	ASTM D5185m	>20	0	0	2
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	<1	6
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	4	2	77
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	9	12	41
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	61	59	42
Manganese	ppm	ASTM D5185m	0	<1	0	5
Magnesium	ppm	ASTM D5185m	1010	879	829	581
Calcium	ppm	ASTM D5185m	1070	1107	1030	1661
Phosphorus	ppm	ASTM D5185m	1150	1004	979	791
Zinc	ppm	ASTM D5185m	1270	1182	1100	934
Sulfur	ppm	ASTM D5185m	2060	3340	3111	2624
CONTAMINANT	rs -	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	5	25
Sodium	ppm	ASTM D5185m		2	0	6
Potassium	ppm	ASTM D5185m	>20	4	0	8
INFRA-RED		method	limit/base	current	history1	history2
INI TIA-TILD						
Soot %	%	*ASTM D7844	>4	0.1	0.1	0.2
Soot %	% Abs/cm	*ASTM D7844 *ASTM D7624	>4 >20	0.1 6.0	0.1 5.0	9.9
Soot % Nitration						
Soot % Nitration	Abs/cm Abs/.1mm	*ASTM D7624	>20	6.0	5.0	9.9
Soot % Nitration Sulfation FLUID DEGRAD	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415 method	>20 >30 limit/base	6.0 17.9 current	5.0 17.5 history1	9.9 21.6 history2
Soot % Nitration Sulfation FLUID DEGRAD Oxidation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20 >30 limit/base >25	6.0 17.9	5.0 17.5	9.9 21.6

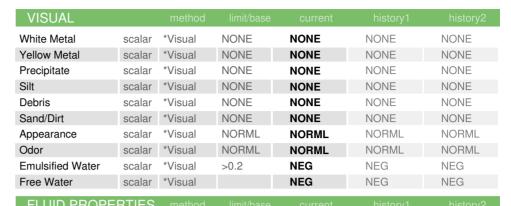


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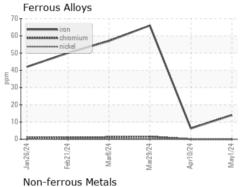


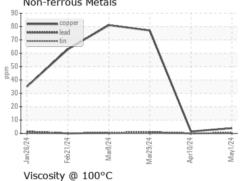


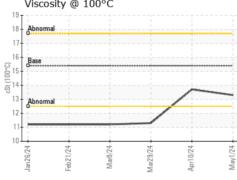


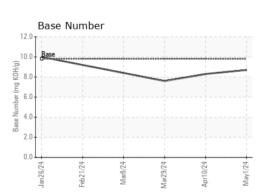
FLUID FROF	ENTIES	method			HISTORY	HISTOLYZ
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	13.7	11.3

GRAPHS













Certificate 12367

Laboratory Sample No.

Test Package : FLEET

: GFL0115834

Lab Number : 06175179 Unique Number : 11021232

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

: 10 May 2024 **Tested** : 11 May 2024 Diagnosed : 11 May 2024 - Wes Davis

GFL Environmental - 868 - Childersburg Fines Hauling (Alpine) 13737 Plant Rd Childersburg, AL

US 35044 Contact: JONATHAN WILLIAMS jonathan.williams@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)

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F: