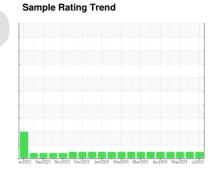


OIL ANALYSIS REPORT



Area (13J6UU) 913036 Diesel Engine

PETRO CANADA DURON UHP 5W30 (--- GAL)





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

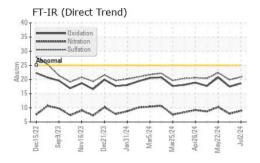
Fluid Condition

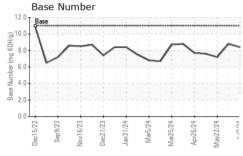
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

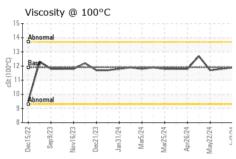
SAMPLE INFORM	MOLTAN	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0122871	GFL0122831	GFL0122793
Sample Date		Client Info		02 Jul 2024	13 Jun 2024	22 May 2024
Machine Age	hrs	Client Info		4939	4810	4652
Oil Age	hrs	Client Info		4781	158	4120
Oil Changed	0	Client Info		N/A	Not Changd	Changed
Sample Status		CHOILE HIIO		NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method		NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	9	4	11
Chromium	ppm	ASTM D5185m		1	0	<1
Nickel	ppm	ASTM D5185m	>5	- <1	0	0
Titanium	ppm	ASTM D5185m		1	0	0
Silver	ppm	ASTM D5185m	>2	- ' <1	0	<1
Aluminum	ppm	ASTM D5185m		4	3	2
Lead		ASTM D5185m	>40	~ <1	0	1
Copper	ppm	ASTM D5185m		2	1	1
Coppei Tin		ASTM D5185m		<1	<1	1
Vanadium	ppm	ASTM D5185m	>10	<1	0	0
Cadmium		ASTM D5185m		<1	0	0
	ppm		limit/bass			
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm		0	26	32	21
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	64	58	55	58
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	1160	1171	1148	1097
Calcium	ppm	ASTM D5185m		871	852	798
Phosphorus	ppm	ASTM D5185m	1160	1026	1064	1030
Zinc	ppm	ASTM D5185m	1260	1310	1289	1247
Sulfur	ppm	ASTM D5185m	3000	3233	3919	3490
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm		>25	7	6	5
0!'						
Sodium	ppm	ASTM D5185m	00	6	5	6
Potassium	ppm	ASTM D5185m	>20	5	6	4
Potassium INFRA-RED	ppm	ASTM D5185m method	limit/base	5 current	6 history1	4 history2
Potassium INFRA-RED Soot %	ppm %	ASTM D5185m method *ASTM D7844	limit/base	5 current 0.3	6 history1 0.2	4 history2 0.5
Potassium INFRA-RED Soot % Nitration	ppm % Abs/cm	ASTM D5185m method *ASTM D7844 *ASTM D7624	limit/base	5 current 0.3 9.0	6 history1 0.2 7.9	4 history2 0.5 10.3
Potassium INFRA-RED Soot % Nitration Sulfation	ppm % Abs/cm Abs/.1mm	ASTM D5185m method *ASTM D7844	limit/base	5 current 0.3	6 history1 0.2	4 history2 0.5
Potassium INFRA-RED Soot % Nitration	ppm % Abs/cm Abs/.1mm	ASTM D5185m method *ASTM D7844 *ASTM D7624	limit/base >4 >20	5 current 0.3 9.0	6 history1 0.2 7.9	4 history2 0.5 10.3
Potassium INFRA-RED Soot % Nitration Sulfation	ppm % Abs/cm Abs/.1mm	ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base	5 current 0.3 9.0 20.9	6 history1 0.2 7.9 19.9	4 history2 0.5 10.3 22.4



OIL ANALYSIS REPORT



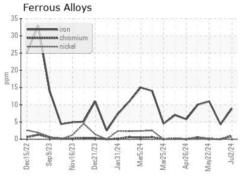


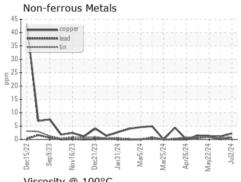


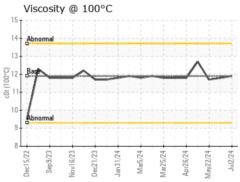
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

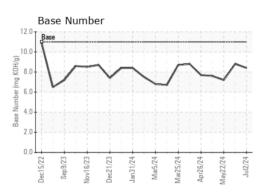
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	11.9	11.9	11.8	11.7

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0122871 Lab Number : 06229703

Unique Number : 11113196 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 08 Jul 2024

Tested : 09 Jul 2024

Diagnosed : 09 Jul 2024 - Sean Felton

GFL Environmental - 836 - Kansas City Hauling

7801 East Truman Road Kansas City, MO

US 64126 Contact: Loyce Stewart loyce.stewart@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)

T:

F: