

OIL ANALYSIS REPORT





Machine Id

Component Diesel Engine

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

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

🔺 Wear

Valve wear is indicated. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

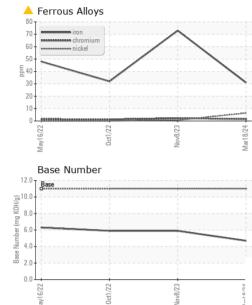
Fluid Condition

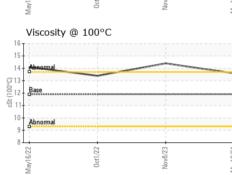
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

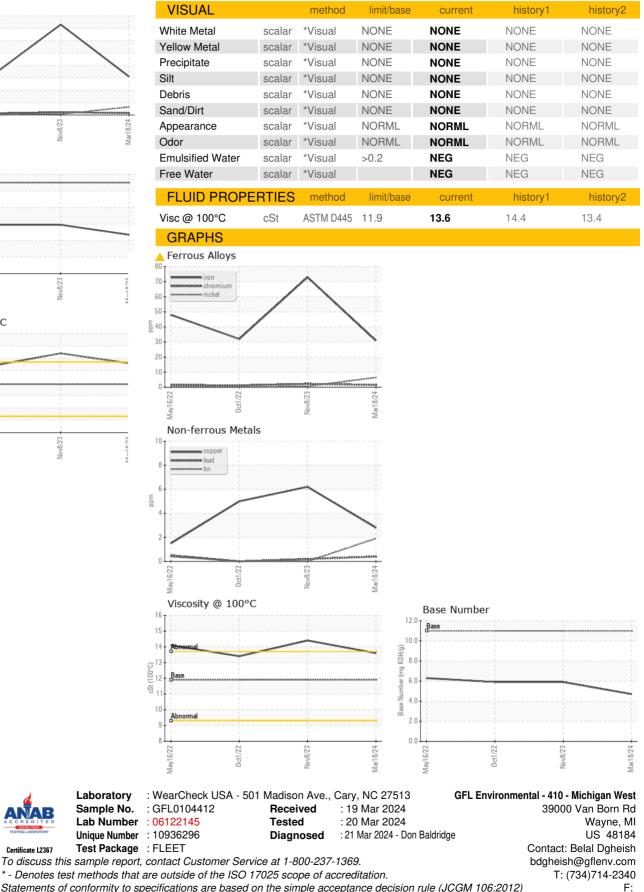
AL)		May202	2 Oct2022	Nov2023 M	ar2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0104412	GFL0059152	GFL0059195
Sample Date		Client Info		18 Mar 2024	08 Nov 2023	01 Oct 2022
Machine Age	mls	Client Info		162045	157069	112473
Oil Age	mls	Client Info		0	0	112473
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				ABNORMAL	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
ron	ppm	ASTM D5185m	>100	31	73	32
Chromium	ppm	ASTM D5185m	>20	2	2	1
Nickel	ppm	ASTM D5185m	>2	<u> </u>	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	3	<1
Aluminum	ppm	ASTM D5185m	>25	2	5	2
_ead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	3	6	5
Γin	ppm	ASTM D5185m	>15	2	0	0
/anadium	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	2	0	1
Barium	ppm	ASTM D5185m	0	0	6	<1
Volybdenum	ppm	ASTM D5185m	64	57	69	55
Vanganese	ppm	ASTM D5185m	0	1	<1	<1
Vagnesium	ppm	ASTM D5185m	1160	896	966	815
Calcium	ppm	ASTM D5185m	820	1067	1208	1034
Phosphorus	ppm	ASTM D5185m	1160	973	1078	934
Zinc	ppm	ASTM D5185m	1260	1231	1293	1150
Sulfur	ppm	ASTM D5185m	3000	2613	2897	2552
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	14	6
	ppm ppm	ASTM D5185m ASTM D5185m	>25	6 6	14 0	6 5
Sodium						
Sodium	ppm	ASTM D5185m		6	0	5
Sodium Potassium INFRA-RED	ppm	ASTM D5185m ASTM D5185m	>20	6 3	0 2	5 2
Sodium Potassium INFRA-RED Soot %	ppm ppm	ASTM D5185m ASTM D5185m method	>20 limit/base	6 3 current	0 2 history1	5 2 history2
Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm %	ASTM D5185m ASTM D5185m method *ASTM D7844	>20 limit/base >3	6 3 current 1.1	0 2 history1 0.9	5 2 history2 0.5
Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 limit/base >3 >20	6 3 <u>current</u> 1.1 9.7	0 2 history1 0.9 13.2	5 2 history2 0.5 12.2
Soot % Nitration Sulfation	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 limit/base >3 >20 >30	6 3 <u>current</u> 1.1 9.7 23.2	0 2 history1 0.9 13.2 25.1	5 2 history2 0.5 12.2 24.8



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

Certificate L2367

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