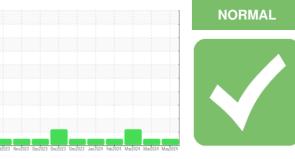


OIL ANALYSIS REPORT

Sample Rating Trend



834045 Component Diesel Engine

PETRO CANADA DURON GEO LD 15W40 (--- GAL)

SAMPLE INFORMATION method

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Machine Id

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

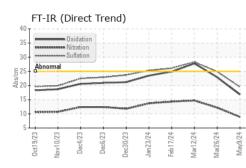
Fluid Condition

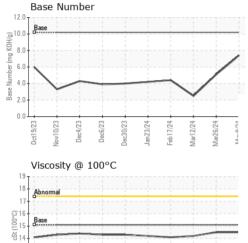
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFOR		method	iimii/base	current	nistory i	nistoryz
Sample Number		Client Info		GFL0118786	GFL0114174	GFL0114146
Sample Date		Client Info		09 May 2024	26 Mar 2024	12 Mar 2024
Machine Age	hrs	Client Info		1343	1175	1126
Oil Age	hrs	Client Info		168	1175	1126
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	ABNORMAL
•					-	
CONTAMINAT	ION	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 METAL	c	method	limit/base	ourropt	biotory (1	biotory?
	3			current	history1	history2
Iron	ppm	ASTM D5185m	>120	17	61	89
Chromium	ppm	ASTM D5185m	>20	<1	1	2
Nickel	ppm	ASTM D5185m	>5	<1	2	2
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	3	5	8
Lead	ppm	ASTM D5185m	>40	<1	3	4
Copper	ppm	ASTM D5185m	>330	3	12	19
Tin	ppm	ASTM D5185m	>15	<1	1	2
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base 50	current 24	history1 14	history2 1
	ppm				· · · · ·	
Boron Barium		ASTM D5185m	50	24	14	1
Boron	ppm	ASTM D5185m ASTM D5185m	50 5 50	24 0	14 2	1
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	50 5 50	24 0 50	14 2 60	1 4 65
Boron Barium Molybdenum	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 5 50 0	24 0 50 2	14 2 60 11	1 4 65 16
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 5 50 0 560	24 0 50 2 542	14 2 60 11 839	1 4 65 16 874
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 5 50 0 560 1510	24 0 50 2 542 1447	14 2 60 11 839 1559	1 4 65 16 874 1394
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 5 50 0 560 1510 780	24 0 50 2 542 1447 732	14 2 60 11 839 1559 763	1 4 65 16 874 1394 795
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 5 50 0 560 1510 780 870	24 0 50 2 542 1447 732 893	14 2 60 11 839 1559 763 1063 2932	1 4 65 16 874 1394 795 969 2621
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 5 50 0 560 1510 780 870 2040	24 0 50 2 542 1447 732 893 2363	14 2 60 11 839 1559 763 1063	1 4 65 16 874 1394 795 969 2621 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	50 5 50 0 560 1510 780 870 2040	24 0 50 2 542 1447 732 893 2363 2363 current 7	14 2 60 11 839 1559 763 1063 2932 history1 19	1 4 65 16 874 1394 795 969 2621
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 5 50 0 560 1510 780 870 2040	24 0 50 2 542 1447 732 893 2363 current	14 2 60 11 839 1559 763 1063 2932 history1	1 4 65 16 874 1394 795 969 2621 history2 29
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 5 50 0 560 1510 780 870 2040 limit/base >25	24 0 50 2 542 1447 732 893 2363 2363 current 7 6	14 2 60 11 839 1559 763 1063 2932 history1 19 5	1 4 65 16 874 1394 795 969 2621 bistory2 29 10
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m	50 5 50 0 560 1510 780 870 2040 imit/base >25 >20	24 0 50 2 542 1447 732 893 2363 current 7 6 3 3	14 2 60 11 839 1559 763 1063 2932 history1 19 5 5 5	1 4 65 16 874 1394 795 969 2621 history2 29 10 28
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m	50 5 50 0 560 1510 780 870 2040 Imit/base >25 -20 Imit/base	24 0 50 2 542 1447 732 893 2363 current 7 6 3 2 6 3 2 0	14 2 60 11 839 1559 763 1063 2932 history1 19 5 5 5	1 4 65 16 874 1394 795 969 2621 bistory2 29 10 28 bistory2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m	50 50 00 560 1510 780 870 2040 Imit/base >25 >20 Imit/base >20	24 0 50 2 542 1447 732 893 2363 current 7 6 3 3	14 2 60 11 839 1559 763 1063 2932 history1 19 5 5 5 history1 0.1	1 4 65 16 874 1394 795 969 2621 history2 29 10 28 history2 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	50 50 50 150 1510 780 870 2040 imit/base >25 20 imit/base >4 >20 30	24 0 50 2 542 1447 732 893 2363 current 7 6 3 3 current 0 8.9 19.5	14 2 60 11 839 1559 763 1063 2932 history1 19 5 5 history1 0.1 12.2 24.9	1 4 65 16 874 1394 795 969 2621 bistory2 29 10 28 bistory2 0 14.7 28.3
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7844 *ASTM D7844	50 50 50 150 1510 780 870 2040 2040 2040 225 20 220 220 20 20 20 20 20 20 20 20 20 2	24 0 50 2 542 1447 732 893 2363 current 7 6 3 current 0 8.9 19.5 current	14 2 60 11 839 1559 763 1063 2932 history1 19 5 5 history1 0.1 12.2 24.9 history1	1 4 65 16 874 1394 795 969 2621 history2 29 10 28 history2 0 14.7 28.3 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	50 50 50 150 1510 780 870 2040 imit/base >25 20 imit/base >4 >20 30	24 0 50 2 542 1447 732 893 2363 current 7 6 3 3 current 0 8.9 19.5	14 2 60 11 839 1559 763 1063 2932 history1 19 5 5 history1 0.1 12.2 24.9	1 4 65 16 874 1394 795 969 2621 bistory2 29 10 28 bistory2 0 14.7 28.3



OIL ANALYSIS REPORT



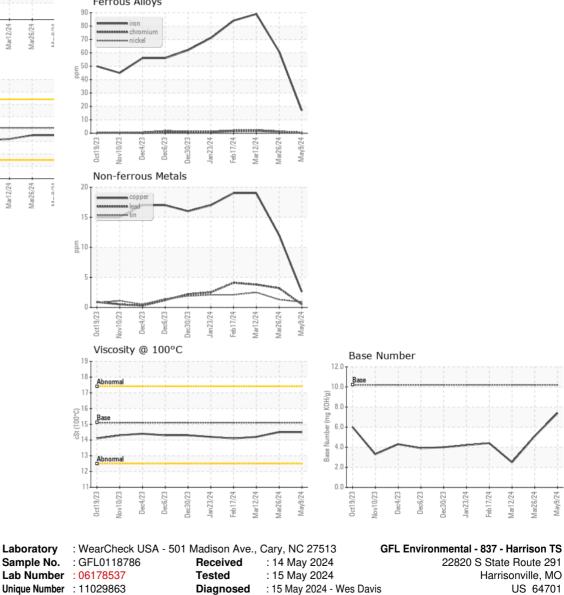


lan23/24 eb17/24 Mar12/24 Mar26/24

r30/73

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	LIGHT	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
	DTIES	mathad	limit/booo	ourropt	biotom	biotory 0
FLUID PROPE	RHES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.5	14.5	14.2
GRAPHS						

Ferrous Alloys





13 Abnorma 12

> 0ct19/23 Nov10/23

Dec4/23 Dec6/23

> Test Package : FLEET Certificate 12367 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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Submitted By: JEREMY BROWN Page 2 of 2