

OIL ANALYSIS REPORT

Sample Rating Trend

...Islas.

NORMAL

Machine Id

AUTOCAR 10761

Diesel Engine

Fluid PETRO CANADA DURON SHP 15W40 (28 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.

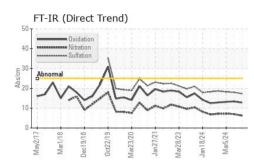
Fluid Condition

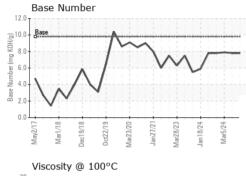
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

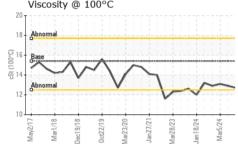
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0116802	GFL0116742	GFL0109036
Sample Date		Client Info		10 Apr 2024	20 Mar 2024	05 Mar 2024
Machine Age	hrs	Client Info		34510	34360	34259
Oil Age	hrs	Client Info		28620	28470	28369
Oil Changed		Client Info		N/A	Not Changd	N/A
Sample Status				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	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	4	12	15
Chromium	ppm		>5	0	0	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		1	1	2
Lead	ppm	ASTM D5185m	>25	<1	0	0
Copper	ppm		>100	<1	0	<1
Tin	ppm	ASTM D5185m	>4	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
• anaanann	ppm				0	
Cadmium	maa	ASTM D5185m		0	0	0
	ppm	ASTM D5185m method	limit/base	0 current	0 history1	0 history2
ADDITIVES		method		current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	0	current 5	history1 9	history2 10
ADDITIVES Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	0	current 5 0	history1 9 0	history2 10 0
ADDITIVES Boron Barium Molybdenum	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60	current 5 0 58	history1 9 0 60	history2 10 0 58
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0	current 5 0 58 0	history1 9 0 60 0	history2 10 0 58 0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010	current 5 0 58 0 839	history1 9 0 60 0 859	history2 10 0 58 0 760
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070	Current 5 0 58 0 839 1112	history1 9 0 60 0 859 1194	history2 10 0 58 0 760 1079
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070 1150	Current 5 0 58 0 839 1112 964	history1 9 0 60 0 859 1194 1028	history2 10 0 58 0 760 1079 902
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070	Current 5 0 58 0 839 1112	history1 9 0 60 0 859 1194	history2 10 0 58 0 760 1079
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070 1150 1270	Current 5 0 58 0 839 1112 964 1123	history1 9 0 60 0 859 1194 1028 1229	history2 10 0 58 0 760 1079 902 1128
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 1010 1070 1150 1270 2060	Current 5 0 58 0 839 1112 964 1123 3415	history1 9 0 60 0 859 1194 1028 1229 3597	history2 10 0 58 0 760 1079 902 1128 2993
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 1010 1070 1150 1270 2060	Current 5 0 58 0 839 1112 964 1123 3415 Current	history1 9 0 60 0 859 1194 1028 1229 3597 history1	history2 10 0 58 0 760 1079 902 1128 2993 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 60 1010 1070 1150 1270 2060 limit/base	current 5 0 58 0 839 1112 964 1123 3415 current 4	history1 9 0 60 0 859 1194 1028 1229 3597 history1 7	history2 10 0 58 0 760 1079 902 1128 2993 history2 9
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 60 1010 1070 1150 1270 2060 limit/base	current 5 0 58 0 839 1112 964 1123 3415 current 4 4	history1 9 0 60 0 859 1194 1028 1229 3597 history1 7 17	history2 10 0 58 0 760 1079 902 1128 2993 history2 9 30
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 imit/base >25	current 5 0 58 0 839 1112 964 1123 3415 current 4 4 0	history1 9 0 60 0 859 1194 1028 1229 3597 history1 7 17 6	history2 10 0 58 0 760 1079 902 1128 2993 history2 9 30 15
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm TS	method ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 Imit/base >25 -20 Imit/base	current 5 0 58 0 839 1112 964 1123 3415 current 4 0 current 0 current 0.2	history1 9 0 60 0 859 1194 1028 1229 3597 history1 7 17 6 history1	history2 10 0 58 0 760 1079 902 1128 2993 history2 9 30 15 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm	method ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 2060 225 >25 >20 limit/base >20	Current 5 0 58 0 839 1112 964 1123 3415 Current 4 4 0 Current	history1 9 0 60 0 859 1194 1028 1229 3597 history1 7 17 6 history1 0.4	history2 10 0 58 0 760 1079 902 1128 2993 history2 9 30 15 history2 0.5
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 imit/base >25 >20 imit/base >20	current 5 0 58 0 839 1112 964 1123 3415 current 4 4 0 current 0 current 0.2 6.2	history1 9 0 60 0 859 1194 1028 1229 3597 history1 7 17 6 history1 0.4 7.0	history2 10 0 58 0 760 1079 902 1128 2993 history2 9 30 15 history2 0.5 7.2
ADDITIVES 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	method ASTM D5185m ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 imit/base >25 imit/base >20 imit/base >20	Current 5 0 58 0 839 1112 964 1123 3415 current 4 0 current 0.2 6.2 17.3	history1 9 0 60 0 859 1194 1028 1229 3597 history1 7 17 6 history1 0.4 7.0 18.0	history2 10 0 58 0 760 1079 902 1128 2993 history2 9 30 15 history2 0.5 7.2 18.2



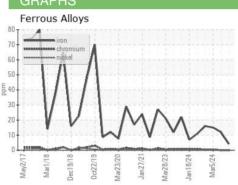
OIL ANALYSIS REPORT







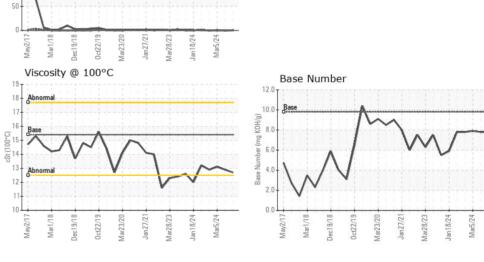
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	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	12.7	12.9	13.1
GRAPHS						



Non-ferrous Metals

lead

250



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 009 - Fairburn Sample No. : GFL0116802 Received : 19 Apr 2024 6905 Roosevelt Hwy Lab Number : 06154101 Tested : 22 Apr 2024 Fairburn, GA US 30213 Unique Number : 10989524 Diagnosed : 22 Apr 2024 - Wes Davis Test Package : FLEET Contact: Eric Jones Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. erjones@gflenv.com T: (678)630-9927 * - 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) E:

Report Id: GFL009 [WUSCAR] 06154101 (Generated: 04/22/2024 11:56:38) Rev: 1

Submitted By: Eric Jones Page 2 of 2