

OIL ANALYSIS REPORT

Sample Rating Trend

SAMPLE INFORMATION method limit/base



NORMAL

Machine Id

252008-207 Component Gasoline Engine Fluid NAPA 5W30 (--- LTR)

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 Number Sample Date Machine Age Oil Age Oil Changed Sample Status	mls mls	Client Info Client Info Client Info Client Info method	limit/base	GFL0077742 13 May 2024 428986 0 Changed NORMAL	GFL0065066 19 Sep 2023 411618 0 Not Changd NORMAL history1	GFL0047407 07 Jun 2022 377898 0 Changed NORMAL history2
Evel		WC Method	>1.0	<1 0	<1.0	
Water		WC Method	>0.2	NEG	NFG	NFG
Glycol		WC Method	,	NEG	NEG	NEG
	9	method	limit/base	current	history1	history2
			150	EC	AE	
Chromium	ppm	ASTM D5185m	>100	20	40	2
Nickel	ppm	ASTM D5185m	>20	2	<1	2
Titanium	npm	ASTM D5185m	20	- -1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>40	8	3	13
Lead	ppm	ASTM D5185m	>50	<1	0	<1
Copper	ppm	ASTM D5185m	>155	7	6	16
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	nom	ASTM D5185m		.4	0	0
	pp			<1	0	0
ADDITIVES	ppm	method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	<1 current 33	history1 63	history2 75
ADDITIVES Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	limit/base	current330	history1 63 0	history2 75 0
ADDITIVES Boron Barium Molybdenum	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	<pre>current 33 0 76</pre>	63 0 70	history2 75 0 74
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	<1 current 33 0 76 4	63 0 70 <1	history2 75 0 74 1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	<1 current 33 0 76 4 4 498	63 63 0 70 <1 573	history2 75 0 74 1 532
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm ppm	Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	<1 current 33 0 76 4 498 971	history1 63 0 70 <1 573 990	history2 75 0 74 1 532 989
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	<1 current 33 0 76 4 498 971 589	63 0 70 <1 573 990 638	history2 75 0 74 1 532 989 578
ADDITIVES 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 ASTM D5185m	limit/base	<1 current 33 0 76 4 498 971 589 711	history1 63 0 70 <1 573 990 638 755	history2 75 0 74 1 532 989 578 712
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	<1 current 33 0 76 4 498 971 589 711 2580	history1 63 0 70 <1 573 990 638 755 2780	history2 75 0 74 1 532 989 578 712 2431
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base	<1 current 33 0 76 4 498 971 589 711 589 711 2580 current	bistory1 63 0 70 <1 573 990 638 755 2780 history1	istory2 75 0 74 1 532 989 578 712 2431 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base	<1 current 33 0 76 4 498 971 589 711 2580 current 13	bistory1 63 0 70 <1 573 990 638 755 2780 history1 12	istory2 75 0 74 1 532 989 578 712 2431 history2 13
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base limit/base >30 >400	<1 current 33 0 76 4 498 971 589 711 2580 current 13 3	bistory1 63 0 70 <1 573 990 638 755 2780 history1 12 3	o history2 75 0 74 1 532 989 578 712 2431 history2 13 6
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base 	<1 current 33 0 76 4 498 971 589 711 2580 current 13 3 4	history1 63 0 70 <1 573 990 638 755 2780 history1 12 3 2	istory2 75 0 74 1 532 989 578 712 2431 history2 13 6 2
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 ppm	ASTM D5185m	limit/base limit/base >30 >400 >20 limit/base	current3307644989715897112580current1334current	bistory1 63 0 70 <1 573 990 638 755 2780 history1 12 3 2 history1	history2 75 0 74 1 532 989 578 712 2431 history2 13 6 2 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 ppm	ASTM D5185m	limit/base >30 >400 >20 limit/base	<1 current 33 0 76 4 498 971 589 711 2580 current 13 3 4 current 0.1	0 history1 63 0 70 <1 573 990 638 755 2780 history1 12 3 2 history1 0.1	v history2 75 0 74 1 532 989 578 712 2431 history2 13 6 2 history2 0.1 0.1
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	ASTM D5185m	limit/base >30 >400 >20 limit/base >20	<1 current 33 0 76 4 498 971 589 711 2580 current 13 3 4 current 0.1 16.3	history1 63 0 70 <1 573 990 638 755 2780 history1 12 3 2 history1 0.1 12.2	history2 75 0 74 1 532 989 578 712 2431 history2 13 6 2 history2 0.1 16.4
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	ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base	<1 current 33 0 76 4 498 971 589 711 2580 current 13 3 4 current 0.1 16.3 29.8 current current	bistory1 63 0 70 <1 573 990 638 755 2780 history1 12 3 2 history1 0.1 12.2 23.0	v history2 75 0 74 1 532 989 578 712 2431 history2 13 6 2 history2 0.1 16.4 28.4
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	ASTM D5185m ASTM D7844 *ASTM D7415 Method	limit/base >30 >400 >20 limit/base >20 >20 limit/base	<1 current 33 0 76 4 498 971 589 711 2580 current 13 3 4 current 0.1 16.3 29.8 current 	0 history1 63 0 70 <1 573 990 638 755 2780 history1 12 3 2 history1 0.1 12.2 23.0 history1	v history2 75 0 74 1 532 989 578 712 2431 history2 13 6 2 history2 0.1 16.4 28.4 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRAE Oxidation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7844 *ASTM D7415 method *ASTM D7414	limit/base >30 >400 >20 limit/base >20 s30 >20 limit/base >20 s30	<1 current 33 0 76 4 498 971 589 711 2580 current 13 3 4 current 0.1 16.3 29.8 current 29.3 	0 history1 63 0 70 <1 573 990 638 755 2780 history1 12 3 2 history1 0.1 12.2 23.0 history1 20.0	v history2 75 0 74 1 532 989 578 712 2431 history2 13 6 2 history2 0.1 16.4 28.4 history2 28.9

Contact/Location: Jason Smith - GFL650



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 PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445		9.4	9.3	10.6
GRAPHS						





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)

Test Package : FLEET

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Certificate 12367

Contact/Location: Jason Smith - GFL650

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