

OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 529129

Component Diesel Engine

Fluid PETRO CANADA DURON SHP 15W40 (--- 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.

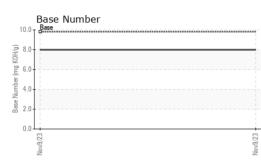
Fluid Condition

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2							
Sample Number		Client Info		GFL0091096									
Sample Date		Client Info		09 Nov 2023									
Machine Age	hrs	Client Info		11776									
Oil Age	hrs	Client Info		400									
Oil Changed		Client Info		Changed									
Sample Status				NORMAL									
CONTAMINAT	ION	method	limit/base	current	history1	history2							
Fuel		WC Method	>2.0	<1.0									
Water		WC Method	>0.2	NEG									
Glycol		WC Method		NEG									
WEAR METAL	S	method	limit/base	current	history1	history2							
Iron	ppm	ASTM D5185m	>100	24									
Chromium	ppm	ASTM D5185m	>20	<1									
Nickel	ppm	ASTM D5185m	>4	0									
Titanium	ppm	ASTM D5185m		0									
Silver	ppm	ASTM D5185m	>3	0									
Aluminum	ppm	ASTM D5185m	>20	2									
Lead	ppm	ASTM D5185m	>40	3									
Copper	ppm	ASTM D5185m	>330	2									
Tin	ppm	ASTM D5185m	>15	<1									
Vanadium	ppm	ASTM D5185m		0									
Cadmium	ppm	ASTM D5185m		0									
Cadmium ADDITIVES	ppm	ASTM D5185m method	limit/base	0 current	history1	 history2							
	ppm ppm		limit/base 0										
ADDITIVES		method		current	history1	history2							
ADDITIVES Boron	ppm	method ASTM D5185m	0	current 6	history1	history2							
ADDITIVES Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	0	current 6 0	history1 	history2 							
ADDITIVES Boron Barium Molybdenum	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60	current 6 0 53	history1 	history2 							
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0	current 6 0 53 <1	history1 	history2 							
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 6 0 53 <1 884	history1 	history2 							
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 6 0 53 <1 884 1014	history1 	history2							
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 6 0 53 <1 884 1014 945	history1	history2							
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 6 0 53 <1 884 1014 945 1189	history1	history2							
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 0 1010 1070 1150 1270 2060	Current 6 0 53 <1 884 1014 945 1189 2883	history1	history2							
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 6 0 53 <1 884 1014 945 1189 2883 current	history1 history1	history2							
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm 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 6 0 53 <1 884 1014 945 1189 2883 current 19	history1 history1	history2 history2							
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 0 1010 1070 1150 1270 2060 kimit/base >25	current 6 0 53 <1 884 1014 945 1189 2883 current 19 3	history1	history2							
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 limit/base >25	current 6 0 53 <1 884 1014 945 1189 2883 current 19 3 4	history1 history1 history1	history2 history2							
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	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	current 6 0 53 <1 884 1014 945 1189 2883 current 19 3 4 current	history1 history1 history1 history1	history2 history2 history2 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 limit/base >25 >20 limit/base >3	current 6 0 53 <1 884 1014 945 1189 2883 current 19 3 4 current 0.6	history1 history1 history1 history1	history2 history2 history2 history2							
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 2060 225 220 220 220 20 20 20 20 20 20 20 20 20	current 6 0 53 <1 884 1014 945 1189 2883 current 19 3 4 current 0.6 10.1	history1 history1 history1	history2 <tr td="" tt<=""></tr> <tr><td>ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation</td><td>ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm</td><td>method ASTM D5185m ASTM D5185m</td><td>0 0 0 1010 1070 1150 1270 2060 2060 225 20 225 20 20 320 33 20 20 20</td><th>current 6 0 53 <1</th></tr>	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 2060 225 20 225 20 20 320 33 20 20 20	current 6 0 53 <1	history1	history2 history2 history2
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 2060 225 20 225 20 20 320 33 20 20 20	current 6 0 53 <1									

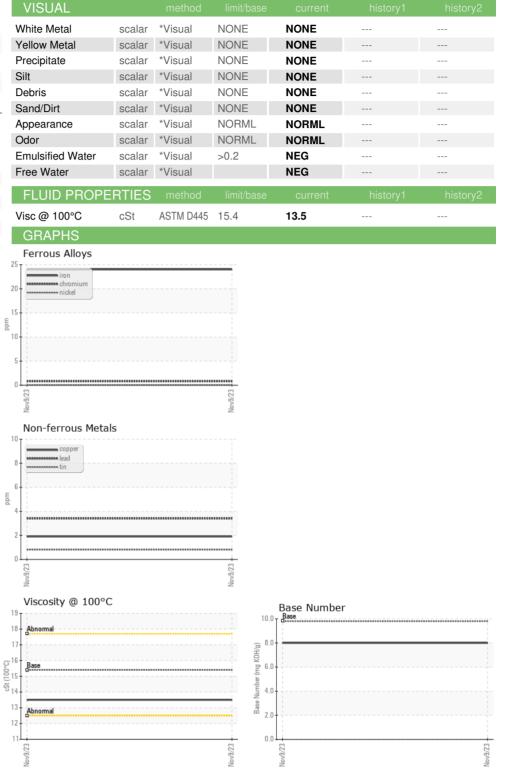


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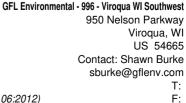


Viscosity @ 100°C









 Certificate L2367
 Test Package
 : FLEET

 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)

: GFL0091096

:06037256

: 10792485

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Diagnostician

Recieved

Diagnosed

: 18 Dec 2023

: 19 Dec 2023

: Wes Davis

Laboratory

Sample No.

Lab Number

Unique Number