

OIL ANALYSIS REPORT

Sample Rating Trend





414087 Component 1 Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (10 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Machine Id

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

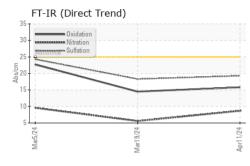
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

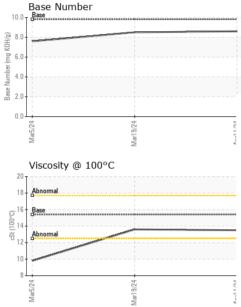
Sample Number Client Info GFL0118169 GFL0109119 GFL0109175 Sample Date Client Info 11 Apr 2024 19 Mar 2024 05 Mar 2024 Machine Age hrs Client Info 700 139 579 Oil Age hrs Client Info 700 139 579 Oil Changed Client Info 700 139 579 Oil Changed Client Info Changed N/A Changed Sample Status nethod init/base current history1 history2 Fuel WC Method >0.2 NEG NEG NEG Glycol WC Method >0.2 NEG NEG NEG VeAR METALS method Imit/base current history1 history2 Iron ppm ASTM 05185m >20 c1 0 c Nickel ppm ASTM 05185m >20 1 10 1 Nickel ppm ASTM 05185m >20	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
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FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.8 14.5 22.7	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 limit/base >25 	0 0 60 <1 914 1036 1003 1199 3129 current 3 10 5 current	15 0 61 <1 1007 1130 1061 1270 3719 history1 7 <1 2 history1	239 0 114 4 701 1372 690 810 2298 bistory2 57 4 23 23
Oxidation Abs/.1mm *ASTM D7414 >25 15.8 14.5 22.7	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	0 0 0 1010 1070 1150 1270 2060 limit/base >25 >20 limit/base >4	0 0 60 <1 914 1036 1003 1199 3129 current 3 10 5 current 0.8	15 0 61 <1 1007 1130 1061 1270 3719 history1 7 <1 2 history1 0.1	239 0 114 4 701 1372 690 810 2298 history2 ↓ 57 4 23 23 history2 0.3
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 imit/base >25 imit/base >20 imit/base	0 0 60 <1 914 1036 1003 1199 3129 current 3 10 5 current 0.8 8.7	15 0 61 <1 1007 1130 1061 1270 3719 history1 7 <1 2 history1 0.1 5.6	239 0 114 4 701 1372 690 810 2298 history2 ▲ 57 4 23 bistory2 0.3 9.6
	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	0 0 0 1010 1070 1150 1270 2060 imit/base >25 imit/base >20 imit/base >4 >20	0 0 60 <1 914 1036 1003 1199 3129 <u>current</u> 3 10 5 <u>current</u> 0.8 8.7 19.3	15 0 61 <1 1007 1130 1061 1270 3719 history1 7 <1 2 <u>history1</u> 0.1 5.6 18.3	239 0 114 4 701 1372 690 810 2298 bistory2 57 4 23 bistory2 0.3 9.6 24.3
	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 ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7844 *ASTM D7844	0 0 0 1010 1070 1150 1270 2060 imit/base >25 	0 0 60 <1 914 1036 1003 1199 3129 current 3 10 5 current 0.8 8.7 19.3 current	15 0 61 <1 1007 1130 1061 1270 3719 history1 7 <1 2 history1 0.1 5.6 18.3 history1	239 0 114 4 701 1372 690 810 2298 history2 ▲ 57 4 23 history2 0.3 9.6 24.3



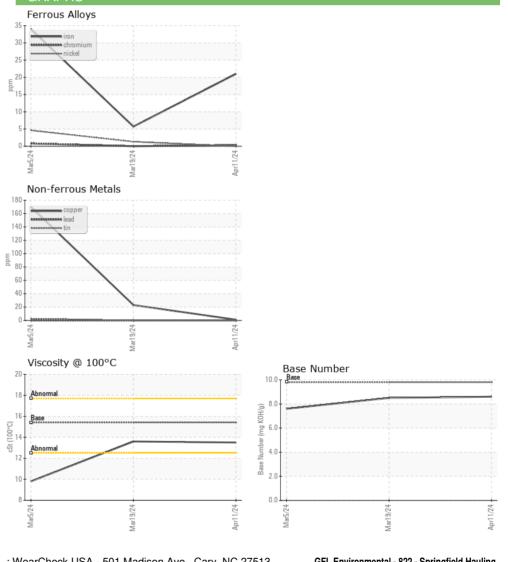
OIL ANALYSIS REPORT

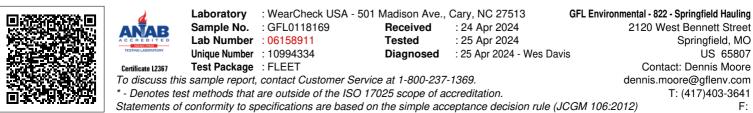
VICLIAI





VISUAL		method	limit/base		history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT	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	13.5	13.6	9.8
GRAPHS						





Submitted By: Dennis Moore

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