

OIL ANALYSIS REPORT









Machine Id 212024 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

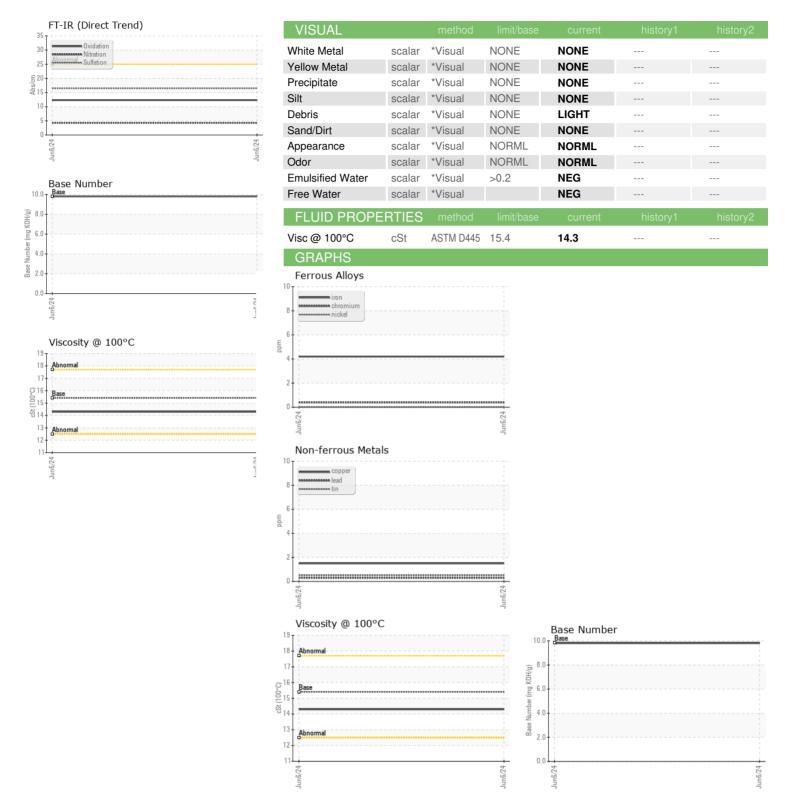
Fluid Condition

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

N SHP 15W40 (- GAL)		,	Jun2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0086992		
Sample Date		Client Info		06 Jun 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATI	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>80	4		
Chromium	ppm	ASTM D5185m	>5	<1		
Nickel	ppm	ASTM D5185m	>2	0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>30	6		
_ead	ppm	ASTM D5185m	>30	<1		
Copper	ppm	ASTM D5185m	>150	2		
Γin	ppm	ASTM D5185m	>5	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	63		
Manganese	ppm	ASTM D5185m	0	0		
Magnesium	ppm	ASTM D5185m	1010	887		
Calcium	ppm	ASTM D5185m	1070	1050		
Phosphorus				1000		
7.	ppm	ASTM D5185m	1150	1026		
	ppm	ASTM D5185m ASTM D5185m	1150 1270			
				1026		
	ppm ppm	ASTM D5185m	1270	1026 1157		
Sulfur CONTAMINAN Silicon	ppm ppm TS ppm	ASTM D5185m ASTM D5185m method ASTM D5185m	1270 2060	1026 1157 3000 current		
Sulfur CONTAMINAN Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	1270 2060 limit/base >20	1026 1157 3000 current 11	 history1	 history2
Sulfur CONTAMINAN Silicon Sodium	ppm ppm TS ppm	ASTM D5185m ASTM D5185m method ASTM D5185m	1270 2060 limit/base >20	1026 1157 3000 current	 history1	 history2
Sulfur CONTAMINAN Silicon Sodium	ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	1270 2060 limit/base >20	1026 1157 3000 current 11	 history1 	 history2
Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	1270 2060 limit/base >20 >20 limit/base >3	1026 1157 3000 current 11 0 2 current 0.1	 history1 	 history2
Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method	1270 2060 limit/base >20 >20 limit/base >3	1026 1157 3000 current 11 0 2 current 0.1 4.3	history1	 history2 history2
Silicon Sodium Potassium	ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	1270 2060 limit/base >20 >20 limit/base >3	1026 1157 3000 current 11 0 2 current 0.1	history1 history1 history1	history2 history2 history2
Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm TS ppm ppm ppm ppm Abs/cm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	1270 2060 limit/base >20 >20 limit/base >3 >20	1026 1157 3000 current 11 0 2 current 0.1 4.3	history1 history1 history1	history2 history2 history2
Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm TS ppm ppm ppm ppm Abs/cm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	1270 2060 limit/base >20 >20 limit/base >3 >20 >30	1026 1157 3000 current 11 0 2 current 0.1 4.3 16.5	history1 history1 history1	history2 history2



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: GFL0086992 Lab Number : 06202335

Unique Number : 11069796 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06 Jun 2024 **Tested**

: 10 Jun 2024 Diagnosed : 10 Jun 2024 - Wes Davis

GFL Environmental - 408 - Brown City

4235 M-53 BROWN CITY, MI US 48416

Contact: MARK WOMBLE

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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