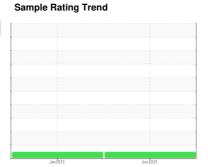


OIL ANALYSIS REPORT

(QB15903) 729024 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

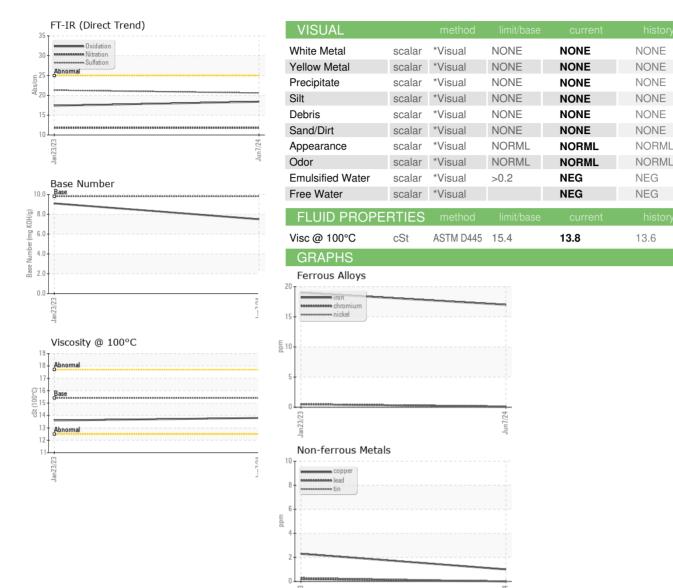
Fluid Condition

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

N 3HP 15W40 (-	GAL)		Jan2U23	Junzuz4		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0113993	GFL0065051	
Sample Date		Client Info		07 Jun 2024	23 Jan 2023	
Machine Age	hrs	Client Info		28045	26448	
Oil Age	hrs	Client Info		28045	26448	
Oil Changed		Client Info		Changed	Not Changd	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	17	19	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>5	0	<1	
Titanium	ppm	ASTM D5185m	>2	<1	<1	
Silver	ppm	ASTM D5185m	>2	0	<1	
Aluminum	ppm	ASTM D5185m	>20	4	7	
Lead	ppm	ASTM D5185m	>40	0	<1	
Copper	ppm	ASTM D5185m	>330	1	2	
Tin	ppm	ASTM D5185m	>15	0	<1	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	10	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	61	61	
Manganese	ppm	ASTM D5185m	0	<1	1	
Magnesium	ppm	ASTM D5185m	1010	888	892	
Calcium	ppm	ASTM D5185m	1070	995	1139	
Phosphorus	ppm	ASTM D5185m	1150	956	914	
Zinc	ppm	ASTM D5185m	1270	1265	1150	
Sulfur	ppm	ASTM D5185m	2060	3193	3018	
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	6	
Silicon Sodium	ppm	ASTM D5185m ASTM D5185m	>25	6 4	6 4	
			>25 >20			
Sodium	ppm	ASTM D5185m		4	4	
Sodium Potassium	ppm	ASTM D5185m ASTM D5185m	>20	4 2	4 <1	
Sodium Potassium INFRA-RED	ppm	ASTM D5185m ASTM D5185m method	>20 limit/base	4 2 current	4 <1 history1	 history2
Sodium Potassium INFRA-RED Soot %	ppm ppm	ASTM D5185m ASTM D5185m method *ASTM D7844	>20 limit/base >4	4 2 current 0.7	4 <1 history1 0.9	 history2
Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 limit/base >4 >20	2 current 0.7 11.8	4 <1 history1 0.9 11.8	history2
Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 limit/base >4 >20 >30	2 current 0.7 11.8 20.6	4 <1 history1 0.9 11.8 21.3	history2



OIL ANALYSIS REPORT







Laboratory Sample No.

: GFL0113993 Lab Number : 06211031 Unique Number : 11083895

Test Package : FLEET

() 16 () 15 ₹ 14

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Viscosity @ 100°C

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Jun 2024 **Tested** Diagnosed

: 18 Jun 2024

: 18 Jun 2024 - Wes Davis

(mg K0H/g)

Base

0.0

Base Number

Muskego, WI US 53150 Contact: Brian Schlomann brian.schlomann@gflenv.com T: (262)510-4586

W144 S6400 College Ct.

GFL Environmental - 932 - Muskego HC

Certificate 12367

To discuss this sample report, contact Customer Service at 1-800-237-1369. st - 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)