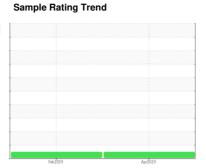


OIL ANALYSIS REPORT



Machine Id 722058 **Diesel Engine**

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





DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: Serviced

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

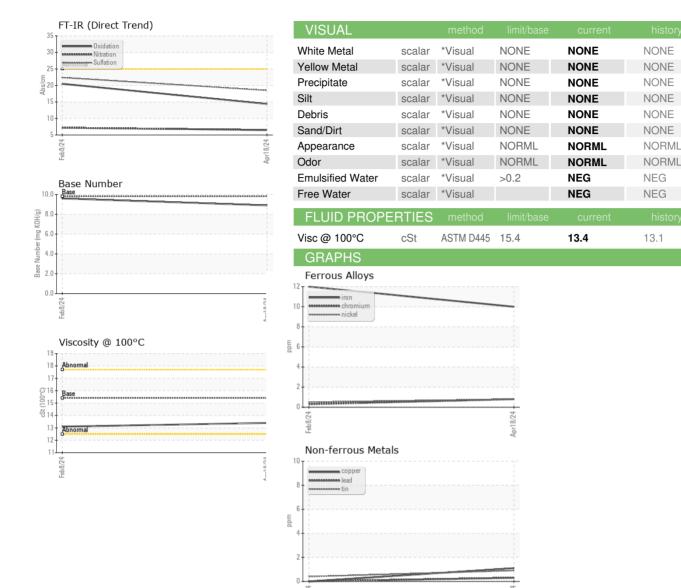
Fluid Condition

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

ON SHP 15W40 (- GAL)		Feb 2024	Apr2024		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0116277	GFL0094890	
Sample Date		Client Info		18 Apr 2024	08 Feb 2024	
Machine Age	hrs	Client Info		3952	3630	
Oil Age	hrs	Client Info		322	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<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	>80	10	12	
Chromium	ppm	ASTM D5185m	>5	<1	<1	
Nickel	ppm	ASTM D5185m	>2	<1	<1	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m	>3	<1	0	
Aluminum	ppm	ASTM D5185m	>30	5	8	
Lead	ppm	ASTM D5185m	>30	<1	0	
Copper	ppm	ASTM D5185m	>150	1	0	
Tin	ppm	ASTM D5185m	>5	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	9	51	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	59	42	
Manganese	ppm	ASTM D5185m	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	838	500	
Calcium	ppm	ASTM D5185m	1070	1109	1572	
Phosphorus	ppm	ASTM D5185m	1150	1071	776	
Zinc	ppm	ASTM D5185m	1270	1173	897	
Sulfur	ppm	ASTM D5185m	2060	3333	2494	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	5	9	
Sodium	ppm	ASTM D5185m		1	3	
Potassium	ppm	ASTM D5185m		6	7	
INFRA-RED		method	limit/base		history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	6.5	7.2	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	22.4	
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	20.5	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.9	9.6	



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: GFL0116277 Lab Number : 06156743 Unique Number : 10992166

() 16 () 15 ₹ 14

Test Package : FLEET

Viscosity @ 100°C

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

Received : 22 Apr 2024 **Tested** : 23 Apr 2024 Diagnosed

: 24 Apr 2024 - Sean Felton

(mg K0H/g)

0.0

GFL Environmental - 625 - Harrison Hauling

4102 Industrial Pkwy Harrison, MI US 48625

Contact: Glenda Standen gstanden@gflenv.com T:

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)

Report Id: GFL625 [WUSCAR] 06156743 (Generated: 04/24/2024 15:19:16) Rev: 1

Submitted By: also GFL632 and GFL638 - Glenda Standen

Base Number

F: