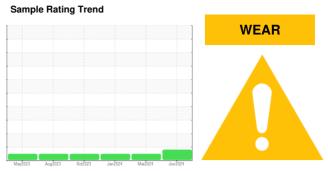


OIL ANALYSIS REPORT



Machine Id 923015 **Diesel Engine**

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



DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

The aluminum level is abnormal. All other 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)	May2023	Augzuza uctzuza	Janzuz4 Marzuz4	Jun2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0123778	GFL0112975	GFL0108409
Sample Date		Client Info		13 Jun 2024	29 Mar 2024	17 Jan 2024
Machine Age	hrs	Client Info		23867	23332	22755
Oil Age	hrs	Client Info		535	23332	22755
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
-uel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	8	7	10
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Γitanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<u>^</u> 21	2	21
_ead	ppm	ASTM D5185m	>40	1	<1	<1
Copper	ppm	ASTM D5185m	>330	2	<1	3
Γin	ppm	ASTM D5185m	>15	<1	<1	<1
/anadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	<1	1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	54	74
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	956	876	1174
Calcium	ppm	ASTM D5185m	1070	1041	940	1232
Phosphorus	ppm	ASTM D5185m	1150	1112	924	1218
Zinc	ppm	ASTM D5185m	1270	1286	1132	1477
Sulfur	ppm	ASTM D5185m	2060	3433	2774	3847
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	4	5
Sodium	ppm	ASTM D5185m		6	4	0
Potassium	ppm	ASTM D5185m	>20	6	2	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	0.3	0.2
Nitration	Abs/cm	*ASTM D7624		8.7	9.2	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	19.5	19.3
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	16.7	16.2
Base Number (BN)	mg KOH/g	ASTM D2896		6.3	6.5	6.8
Dago Hamber (DIN)	my Norry	AOTHI DE000	5.0	0.0	0.0	0.0



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: GFL0123778 Lab Number : 06216696 Unique Number : 11089560

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Jun 2024

Jan 17/24

Tested : 24 Jun 2024 Diagnosed

GFL Environmental - 918 - Hartland HC 630 E Industrial Drive Hartland, WI US 53029

: 24 Jun 2024 - Sean Felton

0.0

Contact: David McCall david.mccall@gflenv.com T: (262)369-3069

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)