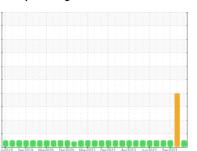


OIL ANALYSIS REPORT

Sample Rating Trend









426081-402330

Component

Diesel Engine

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

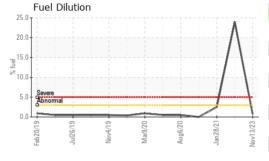
Fluid Condition

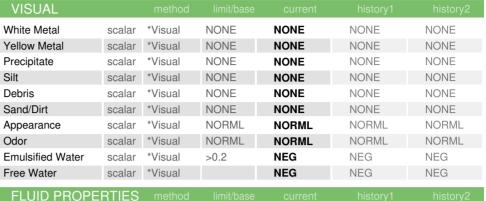
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

N 30P 13W40 (-	GAL)	62019 Sep201	9 Mar2020 Dec2020 May	2022 Dec2022 Apr2023 Jun2023	\$ep2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0099894	GFL0095141	GFL009068
Sample Date		Client Info		13 Nov 2023	11 Oct 2023	13 Sep 2023
Machine Age	hrs	Client Info		17605	17443	17267
Oil Age	hrs	Client Info		0	0	600
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	SEVERE	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	6	8	12
Chromium	ppm	ASTM D5185m	>20	<1	1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	2
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		1	2	3
Lead	ppm	ASTM D5185m	>40	0	<1	2
Copper	ppm	ASTM D5185m		<1	4	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	6	5
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	60	54	64
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1000	711	1047
Calcium	ppm	ASTM D5185m	1070	1062	775	1158
Phosphorus	ppm	ASTM D5185m	1150	1047	777	1083
Zinc	ppm	ASTM D5185m	1270	1286	897	1391
Sulfur	ppm	ASTM D5185m	2060	3005	2273	3177
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	8	4
Sodium	ppm	ASTM D5185m		3	<u></u> 168	7
Potassium	ppm	ASTM D5185m	>20	<1	<1	1
Fuel	%	ASTM D3524	>3.0	0.7	24.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	0.4	0.6
Nitration	Abs/cm	*ASTM D7624	>20	7.2	8.0	8.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	20.0	20.2
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	19.2	16.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.9	6.7	7.3

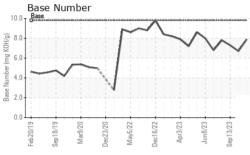


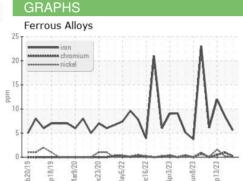
OIL ANALYSIS REPORT





13.5





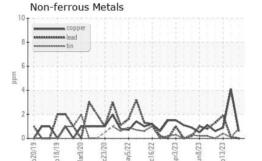
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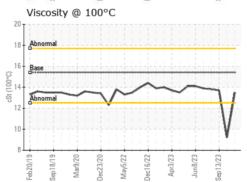
ASTM D445

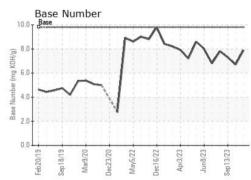
15.4

Visc @ 100°C

Abnormal				illi		
- Base	*********					
Abnormal		$\overline{}$	~	^	\sim	$\overline{}$
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Tirrin (







9.21

13.7



Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: GFL0099894 : 06011945

: 10751089

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Nov 2023 Diagnosed : 21 Nov 2023

Diagnostician : Wes Davis

Test Package : FLEET (Additional Tests: PercentFuel) 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)

GFL Environmental - 836 - Kansas City Hauling

7801 East Truman Road Kansas City, MO US 64126

Contact: Robert Hart rhart@gflenv.com T: (580)461-1509

Report Id: GFL836 [WUSCAR] 06011945 (Generated: 11/21/2023 17:31:22) Rev: 1

Contact/Location: See also GFL823, 834, 837, 840 - Robert Hart - GFL836

F: