

OIL ANALYSIS REPORT

Sample Rating Trend



725056-310015

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

Light fuel dilution occurring.

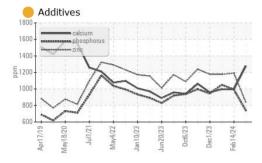
Fluid Condition

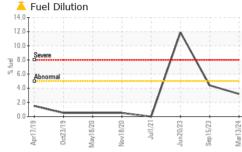
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is suitable for further service.

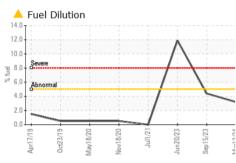
aal)		pr2019 May20	020 Jul2021 May2022 Jan	2023 Jun2023 Oct2023 Dec2023	Feb 2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0109137	GFL0109232	GFL0098321
Sample Date		Client Info		13 Mar 2024	14 Feb 2024	29 Dec 2023
Machine Age	hrs	Client Info		23320	23180	22869
Oil Age	hrs	Client Info		600	700	700
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				ABNORMAL	NORMAL	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	>80	8	8	1
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	4	2	<1
Lead	ppm	ASTM D5185m	>30	<1	<1	<1
Copper	ppm	ASTM D5185m	>150	<1	<1	0
Tin	ppm	ASTM D5185m	>5	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	97	0	<1
Barium	ppm	ASTM D5185m	0	1	0	0
Molybdenum	ppm	ASTM D5185m	60	<u> </u>	55	54
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	698	926	899
Calcium	ppm	ASTM D5185m	1070	1279	995	996
Phosphorus	ppm	ASTM D5185m	1150	739	993	1050
Zinc	ppm	ASTM D5185m	1270	835	1191	1176
Sulfur	ppm	ASTM D5185m	2060	3121	2945	3114
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	18	5	2
Sodium	ppm	ASTM D5185m		<1	8	2
Potassium	ppm	ASTM D5185m	>20	4	2	0
Fuel	%	ASTM D3524	>5	△ 3.2	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.4	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.2	8.1	4.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.7	18.8	17.8
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.4	15.6	13.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.1	8.4	7.9
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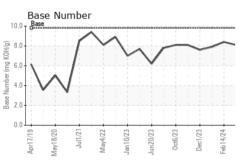


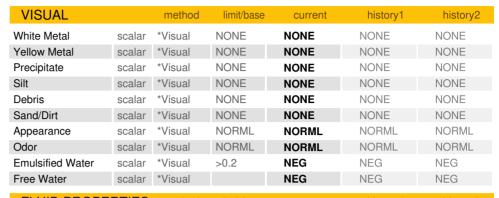
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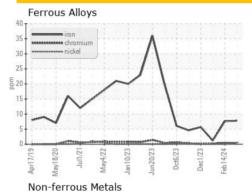


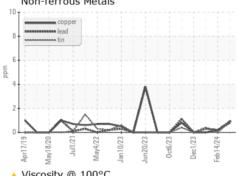


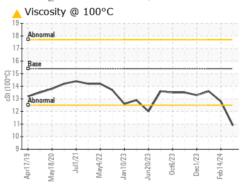


FLUID PROPI	ERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	10.9	12.8	13.6

GRAPHS



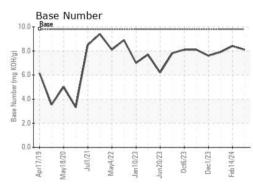




: 25 Mar 2024

: 28 Mar 2024

: 28 Mar 2024 - Wes Davis







Report Id: GFL822 [WUSCAR] 06128616 (Generated: 03/28/2024 09:07:04) Rev: 1

Laboratory Sample No. Lab Number : 06128616

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0109137

Received **Tested**

Unique Number : 10942767 Diagnosed

Test Package: FLEET (Additional Tests: FuelDilution, 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 - 822 - Springfield Hauling

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