

OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **4543M** 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.

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.

IN SHP 15VV40 (GAL)						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0108708	GFL0105588	GFL0089121
Sample Date		Client Info		27 Jan 2024	11 Dec 2023	21 Nov 2023
Machine Age	hrs	Client Info		25817	25415	28258
Oil Age	hrs	Client Info		28258	0	600
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	MARGINAL	SEVERE
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	>90	6	16	12
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	1	1
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	0	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	<1	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	40	53	53
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	687	998	906
Calcium	ppm	ASTM D5185m	1070	767	1055	990
Phosphorus	ppm	ASTM D5185m	1150	843	1050	913
Zinc	ppm	ASTM D5185m	1270	976	1239	1232
Sulfur	ppm	ASTM D5185m	2060	2462	3036	2970
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	4	3
Sodium	ppm	ASTM D5185m		1	2	2
Potassium	ppm	ASTM D5185m	>20	<1	<1	<1
Fuel	%	ASTM D3524	>3.0	0.4	<u>▲</u> 1.7	1.6
INFRA-RED	%	ASTM D3524 method	>3.0 limit/base	0.4 current	▲ 1.7 history1	7.6 history2
	%					
INFRA-RED		method	limit/base	current	history1	history2
INFRA-RED Soot %	%	method *ASTM D7844	limit/base	current 0	history1	history2
INFRA-RED Soot % Nitration	% Abs/cm Abs/.1mm	method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >6 >20	current 0 4.3	history1 0.3 6.5	history2 0.1 6.6
INFRA-RED Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >6 >20 >30 limit/base	current 0 4.3 18.4 current	history1 0.3 6.5 19.1 history1	history2 0.1 6.6 18.1
INFRA-RED Soot % Nitration Sulfation FLUID DEGRAI	% Abs/cm Abs/.1mm DATION	method *ASTM D7844 *ASTM D7624 *ASTM D7415 method	limit/base >6 >20 >30	current 0 4.3 18.4	history1 0.3 6.5 19.1	history2 0.1 6.6 18.1 history2



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Certificate L2367

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

: 06075446 : 10857537

10

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 31 Jan 2024 : GFL0108708 Diagnosed : 02 Feb 2024

Diagnostician : Wes Davis Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

Dec11/23

0.0

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 - 415 - Michigan East

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