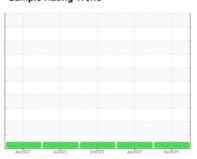


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **828098**

Diesel Engine

PETRO CANADA DURON SHP 15W40 (40 QTS)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected 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.

QIS)		Apr2023	Jul2023	Oct2023 Jan 2024	Apr2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0110789	GFL0092875	GFL0092856
Sample Date		Client Info		17 Apr 2024	15 Jan 2024	23 Oct 2023
Machine Age	mls	Client Info		89947	81062	73577
Oil Age	mls	Client Info		8885	7485	8184
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	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	>110	15	12	21
Chromium	ppm	ASTM D5185m	>4	1	<1	1
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	6	4	7
Lead	ppm	ASTM D5185m	>45	0	0	<1
Copper	ppm	ASTM D5185m	>85	1	<1	1
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	16	5	10
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	52	54	66
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	877	917	977
Calcium	ppm	ASTM D5185m	1070	1210	1049	1240
Phosphorus	ppm	ASTM D5185m	1150	918	1017	1172
Zinc	ppm	ASTM D5185m	1270	1192	1173	1309
Sulfur	ppm	ASTM D5185m	2060	2940	2906	3776
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	5	5	13
Sodium	ppm	ASTM D5185m		2	<1	2
Potassium	ppm	ASTM D5185m	>20	6	5	9
Fuel	%	ASTM D3524	>5	1.4	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.6	0.7
Nitration	Abs/cm	*ASTM D7624	>20	8.8	8.4	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	19.3	19.8
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	15.6	15.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.8	8.3	8.4
(=.*)	39			-		



OIL ANALYSIS REPORT







Laboratory Sample No.

: GFL0110789 Lab Number : 06156585 Unique Number : 10992008

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

: 22 Apr 2024 : 25 Apr 2024 Diagnosed

: 25 Apr 2024 - Wes Davis

GFL Environmental - 411 - Kingsford HC 1001 E Blvd Kingsford, MI US 49802 Contact: Service Manager

Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel) Certificate 12367 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)

T:

F: