

OIL ANALYSIS REPORT

Sample Rating Trend



history1



(YA111541) 2470 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (10 GAL)

SAMPLE INFORMATION method

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

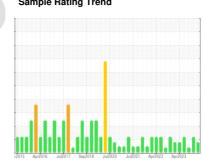
All component wear rates are normal.

Contamination

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

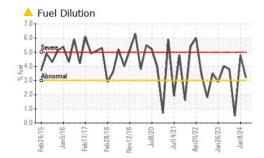


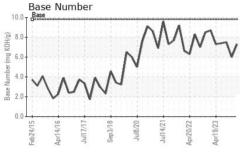
current

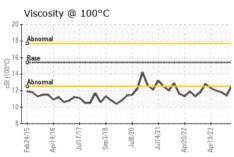
Sample Number		Client Info		PCA0101758	PCA0101781	PCA0101731
Sample Date		Client Info		28 Feb 2024	09 Jan 2024	05 Sep 2023
Machine Age	hrs	Client Info		24410	24147	23553
Oil Age	hrs	Client Info		263	785	785
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ATTENTION
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	4	4	5
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>5	<1	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	3	0
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	14	5	10
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	59	63	70
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	667	776	874
Calcium	ppm	ASTM D5185m	1070	1262	1017	1272
Phosphorus	ppm	ASTM D5185m	1150	970	895	970
Zinc	ppm	ASTM D5185m	1270	1192	1100	1188
Sulfur	ppm	ASTM D5185m	2060	3481	2743	3516
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	7	4
Sodium	ppm	ASTM D5185m		3	19	3
Potassium	ppm	ASTM D5185m	>20	<1	0	2
Fuel	%	ASTM D3524	>3.0	△ 3.2	<u>4.8</u>	0.5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.1	8.2	6.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.1	18.5	16.8
FLUID DEGRAD	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.1	14.1	12.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.3	6.0	7.5
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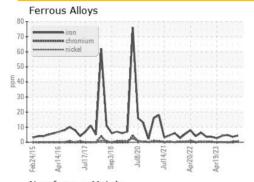


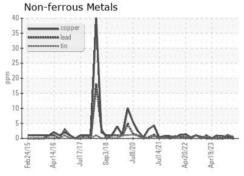


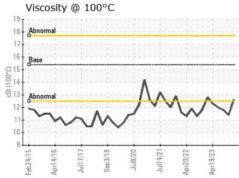
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

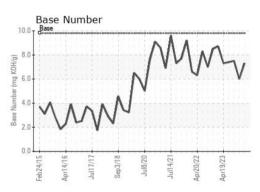
FLUID PROF	ELLIES	memod	IIIIII/Dase	Current	HISTORY	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.4	12.6	▲ 11.4	11.8

GRAPHS













Laboratory Sample No. Lab Number : 06104048 Unique Number : 10902278

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

: PCA0101758

Received **Tested**

: 29 Feb 2024 Diagnosed

: 04 Mar 2024

: 04 Mar 2024 - Wes Davis

GFL Environmental - 002 - Vance-Granville 241 Vanco Mill Rd Henderson, NC US 27537

F: (252)431-1635

Contact: Cameron King cameron.king@gflenv.com T: (252)438-5333

Test Package: FLEET (Additional Tests: PercentFuel) Certificate L2367 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)

Report Id: GFL002 [WUSCAR] 06104048 (Generated: 03/04/2024 10:04:45) Rev: 1