

OIL ANALYSIS REPORT

Sai

Sample Rating Trend Mar/022 Septi22 Mar/024

WEAR



FORD 510

Component **Diesel Engine**

PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. No other corrective action is recommended at this time.

Wear

Aluminum ppm levels are abnormal. Piston wear is indicated.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

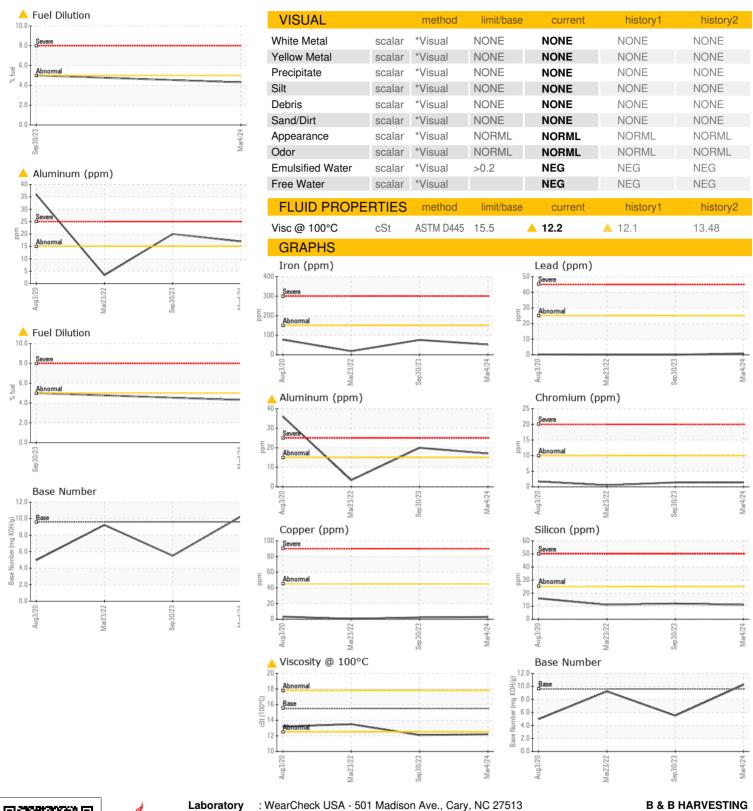
▲ Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

5W40 (GAL)		Aug202	0 Mar2022	Sep 2023 M	ar2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0105132	PCA0105043	PCA0054257
Sample Date		Client Info		04 Mar 2024	30 Sep 2023	23 Mar 2022
Machine Age	mls	Client Info		157660	154306	142696
Oil Age	mls	Client Info		20000	7500	7500
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Nater		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>150	52	76	18
Chromium	ppm	ASTM D5185m	>10	1	1	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Γitanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		<u> 17</u>	<u>^</u> 20	3
_ead	ppm	ASTM D5185m	>25	<1	0	0
Copper	ppm	ASTM D5185m		3	2	<1
Fin		ASTM D5185m	>5	<1	0	0
Antimony	ppm	ASTM D5185m	>0			
/anadium	ppm			<1	0	0
	ppm	ASTM D5185m			0	
Cadmium	ppm	ASTM D5185m		<1		0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	1	7	3	8
Barium	ppm	ASTM D5185m	1	2	0	0
Molybdenum	ppm	ASTM D5185m	60	65	57	54
Manganese	ppm	ASTM D5185m	1	1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	931	899	928
Calcium	ppm	ASTM D5185m	1070	1182	1059	1133
Phosphorus	ppm	ASTM D5185m	1150	1090	940	1055
Zinc	ppm	ASTM D5185m	1270	1250	1178	1278
Sulfur	ppm	ASTM D5185m	2060	3382	2946	2765
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	11	12	11
Sodium	ppm	ASTM D5185m		0	4	2
Potassium	ppm	ASTM D5185m	>20	2	<1	<1
-uel	%	ASTM D3524	>5	4.3	▲ 5.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	9.0	9.9	6.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	20.9	19.2
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.2	22.3	17.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.6	10.26	5.5	9.23
Sase Number (DIN)	my Norty	AOTIVI DZ000	0.0	10.20	0.0	0.20



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number Unique Number: 10942987

: PCA0105132 : 06128836

Received **Tested** Diagnosed Test Package: MOB 2 (Additional Tests: PercentFuel)

: 25 Mar 2024 : 28 Mar 2024

: 28 Mar 2024 - Wes Davis

MODESTO, CA US 95356 Contact: Service Manager drcalvalley@gmail.com T: (209)545-8300 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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.

Report Id: BBHMOD [WUSCAR] 06128836 (Generated: 03/28/2024 20:17:13) Rev: 1

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