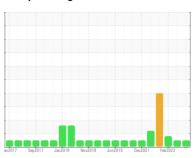


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 9951 Component Diesel Engine

PETRO CANADA DURON XL SYN BLEND 15W40 (37 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

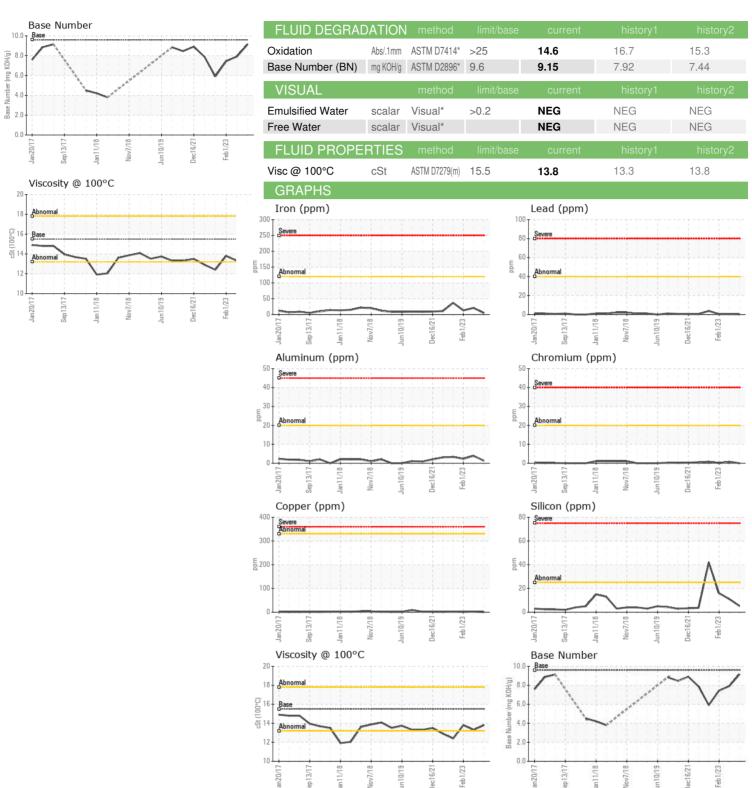
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

15W40 (37 LTR)						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0084298	GFL0077589	GFL0063747
Sample Date		Client Info		20 Jul 2023	03 Jul 2023	01 Feb 2023
Machine Age	kms	Client Info		489343	486366	24847
Oil Age	kms	Client Info		0	0	1205
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	MARGINAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<u> </u>
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	4	21	13
Chromium	ppm	ASTM D5185(m)	>20	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	1	4	2
Lead	ppm	ASTM D5185(m)	>40	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<1	3	1
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Antimony	ppm	ASTM D5185(m)		0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	1	2	3	14
Barium	ppm	ASTM D5185(m)	1	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	55	56	46
Manganese	ppm	ASTM D5185(m)	1	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	928	909	754
Calcium	ppm	ASTM D5185(m)	1070	990	1044	1313
Phosphorus	ppm	ASTM D5185(m)	1150	1025	1024	1065
Zinc	ppm	ASTM D5185(m)	1270	1136	1146	1150
Sulfur	ppm	ASTM D5185(m)	2060	2547	2467	2734
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	5	11	16
Sodium	ppm	ASTM D5185(m)		3	6	4
Potassium	ppm	ASTM D5185(m)	>20	0	<1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0.2	1.1	0.1
Nitration	Abs/cm	ASTM D7624*	>20	5.9	9.6	7.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.4	21.4	20.6



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number Unique Number Test Package : MOB 2

: GFL0084298

: 5618657

: 02573606

Received Diagnosed Diagnostician

: 02 Aug 2023 : 03 Aug 2023

: Wes Davis

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County 220 Carmek Blvd Rocky View County, AB **CA T1X 1X1**

Contact: GFL Calgary calgarymaintenance@gflenv.com

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

Submitted By: GFL Calgary

F: (403)369-6163

T: