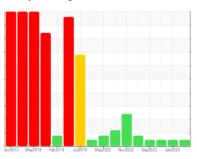


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
401022
Component
Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

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.

iomio (GAL)						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0117304	GFL0099607	GFL0091571
Sample Date		Client Info		16 Apr 2024	22 Jan 2024	17 Oct 2023
Machine Age	kms	Client Info		21330	736223	714260
Oil Age	kms	Client Info		1822	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
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 D5185(m)	>100	27	40	22
Chromium	ppm	ASTM D5185(m)	>20	<1	2	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	4	8	3
Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
Copper	ppm	ASTM D5185(m)	>330	2	3	2
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Antimony	ppm	ASTM D5185(m)		0	0	0
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	3	2	3
Barium	ppm	ASTM D5185(m)	1	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	55	56	59
Manganese	ppm	ASTM D5185(m)	1	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	913	880	936
Calcium	ppm	ASTM D5185(m)	1070	1008	1048	1057
Phosphorus	ppm	ASTM D5185(m)	1150	871	906	975
Zinc	ppm	ASTM D5185(m)	1270	999	1053	1184
Sulfur	ppm	ASTM D5185(m)	2060	1893	2210	2435
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	7	6
Sodium	ppm	ASTM D5185(m)		17	29	24
Potassium	ppm	ASTM D5185(m)	>20	<1	3	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	1.6	2.2	0.8
Nitration	Abs/cm	ASTM D7624*	>20	9.8	11.0	7.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.3	27.9	20.8



OIL ANALYSIS REPORT







Laboratory Sample No.

: GFL0117304 Lab Number : 02630890 Unique Number : 5772043

Test Package : MOB 2

To discuss this sample report, contact Customer Service at 1-800-268-2131.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County Received : 23 Apr 2024

Tested : 23 Apr 2024 Diagnosed

: 23 Apr 2024 - Kevin Marson

Rocky View County, AB **CA T1X 1X1** Contact: GFL Calgary calgarymaintenance@gflenv.com

> T: F: (403)369-6163

220 Carmek Blvd

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.