

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
201072
Component
Diesel Engine
Fluid

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

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

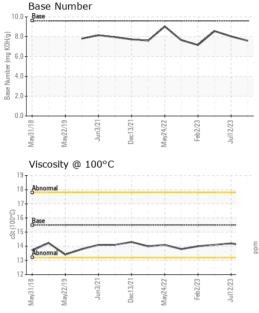
Fluid Condition

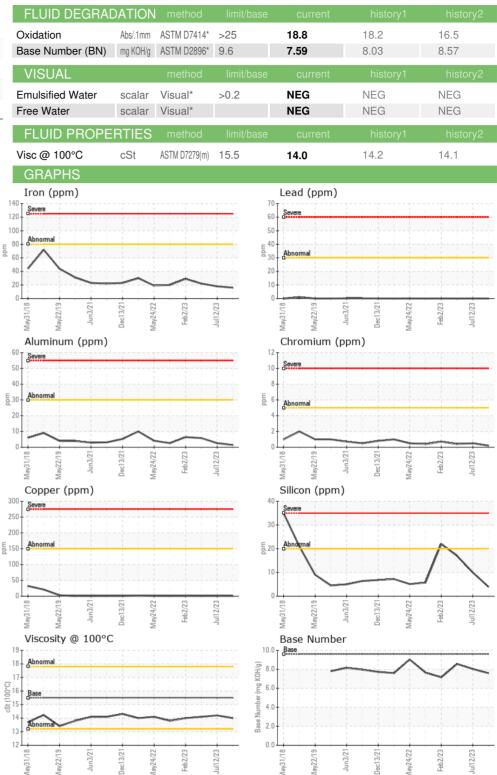
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SYN BLEND 15W40	(GAL)	vlay2018 M	lay2019 Jun2021 De	c2021 May2022 Feb2023	Jul2023	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0091648	GFL0084268	GFL0077575
Sample Date		Client Info		03 Oct 2023	12 Jul 2023	20 Apr 2023
Machine Age	hrs	Client Info		8176	136350	127000
Oil Age	hrs	Client Info		0	0	127000
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAI	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>80	16	18	22
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>30	1	3	6
Lead	ppm	ASTM D5185(m)	>30	0	0	0
Copper	ppm	ASTM D5185(m)	>150	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>5	0	0	0
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	2
Barium	ppm	ASTM D5185(m)	1	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	60	60	57	58
Manganese	ppm	ASTM D5185(m)	1	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	945	941	941
Calcium	ppm	ASTM D5185(m)	1070	1025	1047	1103
Phosphorus	ppm	ASTM D5185(m)	1150	995	1041	1075
Zinc	ppm	ASTM D5185(m)	1270	1187	1168	1172
Sulfur	ppm	ASTM D5185(m)	2060	2467	2457	2586
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	4	10	17
Sodium	ppm	ASTM D5185(m)		1	4	1
Potassium	ppm	ASTM D5185(m)	>20	0	2	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.9	0.9	0.9
Nitration	Abs/cm	ASTM D7624*	>20	9.4	9.6	9.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.0	22.0	20.7



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CALA ISO 17025:2017 Accredited Laboratory

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

: 5657262

: GFL0091648 : 02588196

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County Received : 11 Oct 2023 Diagnosed Diagnostician

: 16 Oct 2023 : Wes Davis

Rocky View County, AB **CA T1X 1X1** Contact: GFL Calgary

220 Carmek Blvd

calgarymaintenance@gflenv.com

F: (403)369-6163

T:

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.