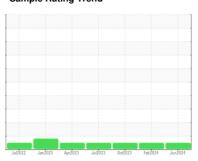


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id
R20414
Component
Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

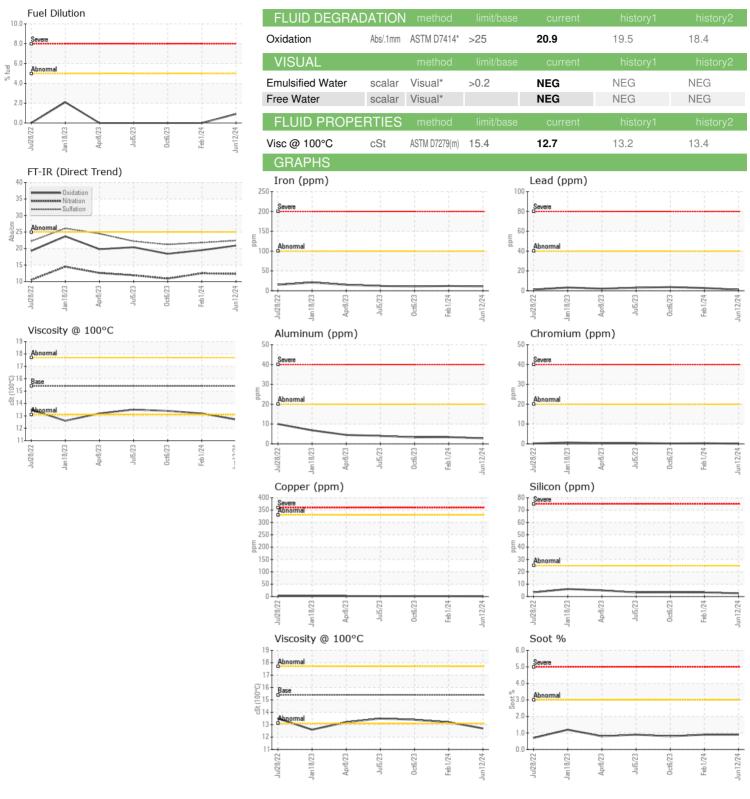
Fluid Condition

The condition of the oil is acceptable for the time in service.

aAL)		Jul2022	Jan2023 Apr2023	Jul2023 Oct2023 Feb2024	Jun2024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0118552	GFL0102724	GFL0094498
Sample Date		Client Info		12 Jun 2024	01 Feb 2024	06 Oct 2023
Machine Age	hrs	Client Info		8078	7395	6823
Oil Age	hrs	Client Info		600	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAI	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	11	12	11
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	0
Titanium	ppm	ASTM D5185(m)		<1	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	3	3	3
Lead	ppm	ASTM D5185(m)	>40	1	3	4
Copper	ppm	ASTM D5185(m)	>330	<1	1	1
Tin	ppm	ASTM D5185(m)	>15	0	<1	0
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)	0	34	1	2
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	63	60	64
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	1090	990	1023
Calcium	ppm	ASTM D5185(m)	1070	1014	1109	1123
Phosphorus	ppm	ASTM D5185(m)	1150	1034	1039	1060
Zinc	ppm	ASTM D5185(m)	1270	1249	1226	1272
Sulfur	ppm	ASTM D5185(m)	2060	2690	2712	2614
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3	3	3
Sodium	ppm	ASTM D5185(m)		6	4	3
Potassium	ppm	ASTM D5185(m)	>20	2	2	2
Fuel	%	ASTM D7593*	>5	0.9	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.9	0.9	0.8
Nitration	Abs/cm	ASTM D7624*	>20	12.3	12.5	10.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.4	21.8	21.2



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: GFL0118552

Lab Number : 02641925 Unique Number : 5799464

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received **Tested**

: 14 Jun 2024 : 17 Jun 2024 Diagnosed

: 17 Jun 2024 - Wes Davis Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel)

Contact: Ian Patton

GFL Environmental - 207 - Pickering SW

1034 TOY AVENUE, PICKERING YARD

ipatton@gflenv.com T: (905)831-6297 F: (905)426-3577

PICKERING, ON

CA L1W 3P1

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.