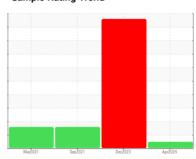


OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 500528 **Diesel Engine**

PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS

Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Test for glycol is negative. There is no indication of any contamination in the oil.

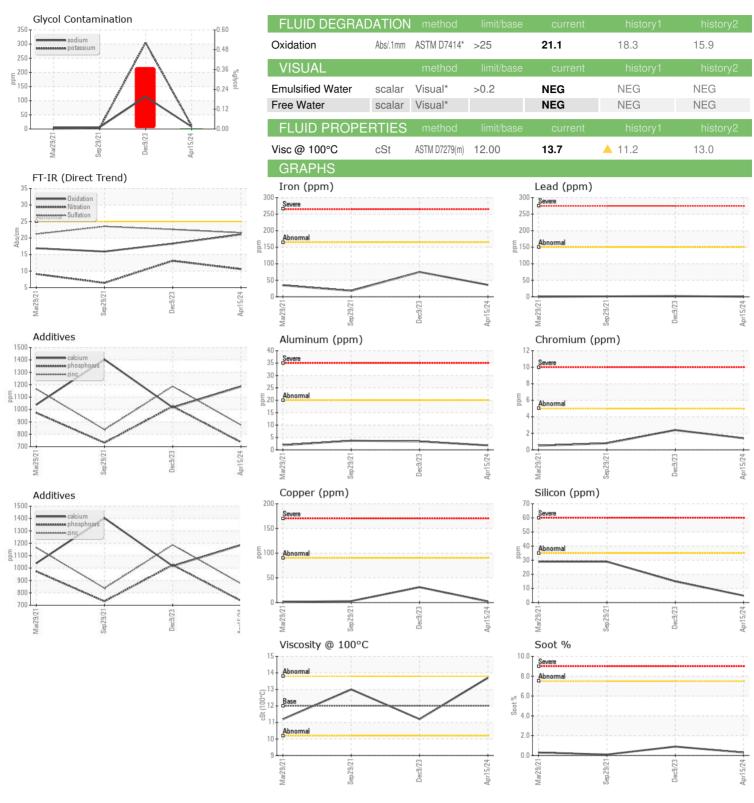
Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

aal)		Mar202	1 Sep2021	Dec2023 A	or2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0108218	GFL0047666	GFL0024285
Sample Date		Client Info		15 Apr 2024	09 Dec 2023	29 Sep 2021
Machine Age	hrs	Client Info		9708	0	6702
Oil Age	hrs	Client Info		500	0	492
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	SEVERE	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<u> </u>	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>165	36	75	18
Chromium	ppm	ASTM D5185(m)	>5	1	2	<1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	3	4
Lead	ppm	ASTM D5185(m)	>150	<1	2	1
Copper	ppm	ASTM D5185(m)	>90	2	31	3
Tin	ppm	ASTM D5185(m)	>5	0	<1	<1
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	<1
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)	2	23	2	270
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	50	51	92	105
Manganese	ppm	ASTM D5185(m)	0	<1	<1	2
Magnesium	ppm	ASTM D5185(m)	950	836	955	674
Calcium	ppm	ASTM D5185(m)	1050	1185	1016	1403
Phosphorus	ppm	ASTM D5185(m)	995	736	1025	731
Zinc	ppm	\ /	1180	875	1187	838
Sulfur	ppm	ASTM D5185(m)	2600	1874	2631	2047
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>35	5	15	<u>^</u> 29
Sodium	ppm	ASTM D5185(m)		8	114	6
Potassium	ppm	ASTM D5185(m)	>20	12	△ 305	2
Glycol	%	ASTM D7922*		0.0	▲ 0.372	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>7.5	0.3	0.9	0.1
Nitration	Abs/cm	ASTM D7624*	>20	10.6	13.1	6.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.6	22.6	23.5



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: GFL0108218 Lab Number : 02631096

Unique Number : 5772249

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 355 - Saskatoon Received : 24 Apr 2024 Tested

Diagnosed

: 24 Apr 2024 : 24 Apr 2024 - Kevin Marson

Saskatoon, SK **CA S7K 3J7** Contact: Ryan Polichuk rpolichuk@gflenv.com T: (306)244-9500

100 Cory Road

Test Package : MOB 1 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.