

OIL ANALYSIS REPORT





Machine Id

4531 Component Diesel Engine Fluid PETRO CANADA DURON SHP 10W30 (--- LTR)

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

Light fuel dilution occurring. No other contaminants were detected in the oil.

Fluid Condition

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0112528	GFL0119006	GFL0102635
Sample Date		Client Info		30 May 2024	23 May 2024	04 Jan 2024
Machine Age	kms	Client Info		209578	24393	23913
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>110	6	31	4
Chromium	ppm	ASTM D5185(m)	>4	<1	<u> </u>	0
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<1	3	2
Lead	ppm	ASTM D5185(m)	>45	0	4	<1
Copper	ppm	ASTM D5185(m)	>85	13	<u> </u>	1
Tin	ppm	ASTM D5185(m)	>4	0	0	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)	2	2	3	2
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	56	67	59
Manganese	ppm	ASTM D5185(m)	0	0	<1	0
Magnesium	ppm	ASTM D5185(m)	950	889	851	931
Calcium	ppm	ASTM D5185(m)	1050	977	947	1001
Phosphorus	ppm	ASTM D5185(m)	995	964	881	991
Zinc	ppm	ASTM D5185(m)	1180	1084	1043	1124
Sulfur	ppm	ASTM D5185(m)	2600	2385	2025	2748
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	2	6	5
Sodium	ppm	ASTM D5185(m)		42	322	68
Potassium	ppm	ASTM D5185(m)	>20	2	15	4
Fuel	%		>5	1.2	▲ 5.1	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	0.5	0
Nitration	Abs/cm	ASTM D7624*	>20	5.3	9.7	4.7
Sulfation	Abs/.1mm	ASTM D7624 ASTM D7415*	>30	18.5	22.6	18.0
Culturon	/ 100/.111111		200	10.5	22.0	10.0



OIL ANALYSIS REPORT

FLUID DEGRADATION method

Abs/.1mm ASTM D7414*

Oxidation

>25

14.2

NEG

NEG

10.9

21.1

NEG

NEG

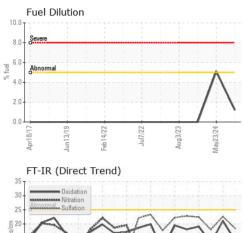
10.1

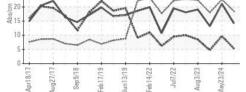
13.2

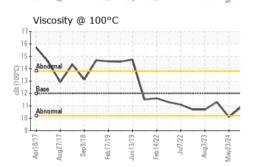
NEG

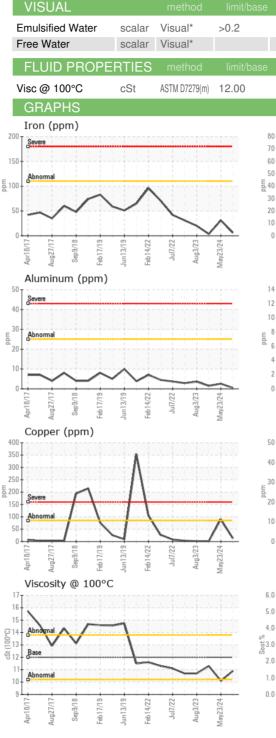
NEG

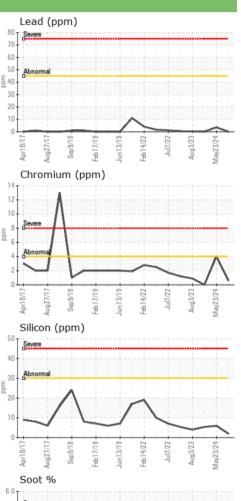
11.3

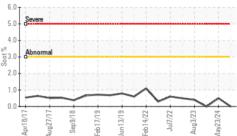












Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW CALA Sample No. : GFL0112528 Received : 05 Jun 2024 8409 -15th Street NW Lab Number : 02639775 Tested : 06 Jun 2024 Edmonton, AB ISO 17025:2017 Accredited CA T6P 0B8 Unique Number : 5788937 Diagnosed : 06 Jun 2024 - Wes Davis Laboratory Test Package : MOB 1 (Additional Tests: PercentFuel) Contact: Tim Greig tgreig@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. T: (780)231-0521 Validity of results and interpretation are based on the sample and information as supplied. E:

Report Id: GFL554 [WCAMIS] 02639775 (Generated: 06/06/2024 13:42:17) Rev: 1

Submitted By: Brian Gagne Page 2 of 2