

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION ABNORMAL

Current

History1

History2



Machine Id 726001 Component Diesel Engine

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

Test

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UOM

Method

l imit/Abn

RECOMMENDATION

No corrective action is recommended at this time. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as PETRO CANADA DURON SHP 15W40, however, a fluid match indicates that this fluid is SAE 30 Diesel Engine Oil. Please confirm the oil type and grade on your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

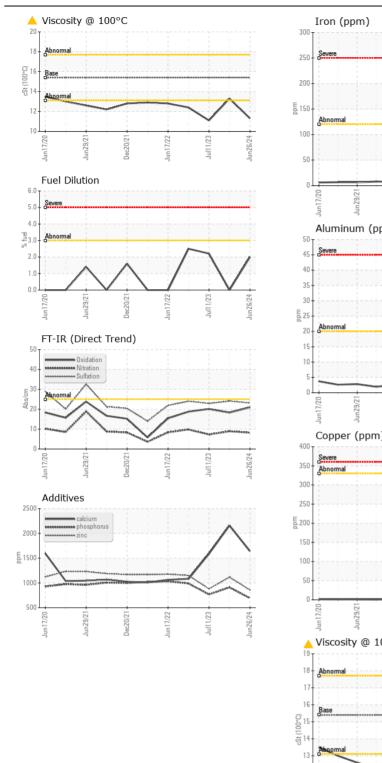
Light fuel dilution occurring. No other contaminants were detected in the oil.

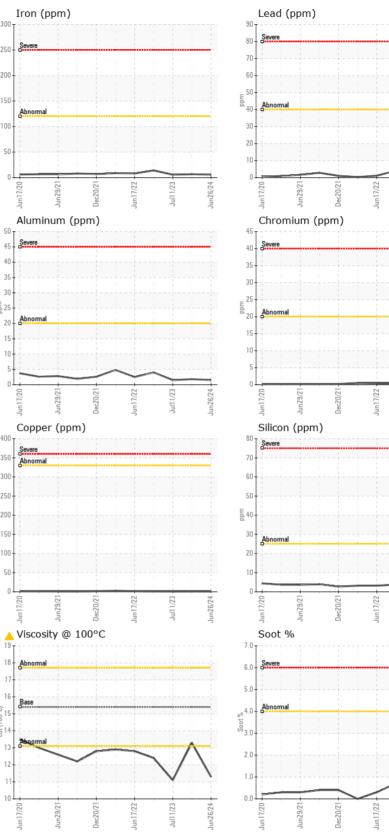
	Sample Number		Client Info		GFL0113194	GFL0113227	GFL0078503
	Sample Date		Client Info		26 Jun 2024	15 Apr 2024	11 Jul 2023
	Machine Age	hrs	Client Info		0	0	0
	Oil Age	hrs	Client Info		22831	22388	20445
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				ABNORMAL	NORMAL	ABNORMAL
	Iron	ppm	ASTM D5185(m)	>120	5	6	6
	Chromium	ppm	ASTM D5185(m)	>20	0	0	<1
	Nickel	ppm	ASTM D5185(m)	>5	2	5	2
	Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
	Silver	ppm	ASTM D5185(m)	>2	0	0	<1
	Aluminum	ppm	ASTM D5185(m)	>20	2	2	2
	Lead	ppm	ASTM D5185(m)	>40	0	0	<1
	Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
	Tin	ppm	ASTM D5185(m)	>15	0	0	0
	Vanadium	ppm	ASTM D5185(m)		0	0	0
	Silicon	ppm	ASTM D5185(m)	>25	5	2	5
	Potassium	ppm	ASTM D5185(m)	>20	<1	6	<1
	Fuel	%	ASTM D7593*	>3.0	2	<1.0	2.2
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	ASTM D7844*	>4	0.3	0.4	0.3
	Nitration	Abs/cm	ASTM D7624*	>20	8.2	8.9	7.3
	Sulfation	Abs/.1mm	ASTM D7415*	>30	23.1	24.1	22.9
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
	Sodium	ppm	ASTM D5185(m)		2	3	3
	Boron	ppm	ASTM D5185(m)	0	29	76	27
	Barium	ppm	ASTM D5185(m)	0	0	0	0
	Molybdenum	ppm	ASTM D5185(m)	60	35	1	40
	Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
	Magnesium	ppm	ASTM D5185(m)	1010	434	23	530
	Calcium	ppm	ASTM D5185(m)	1070	1642	2158	1588
	Phosphorus	ppm	ASTM D5185(m)	1150	693	910	767
	Zinc	ppm	ASTM D5185(m)	1270	857	1117	880
	Sulfur	ppm	ASTM D5185(m)	2060	1950	2673	1982
	Oxidation	Abs/.1mm	ASTM D7414*	>25	20.9	18.3	20.1
	Visc @ 100°C	cSt	ASTM D7279(m)	15.4	11.3	13.3	▲ 11.1

FLUID CONDITION

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

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GFL Environmental - 246 - Windsor Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. Received 2700 Deziel Dr : GFL0113194 : 27 Jun 2024 : 02644323 Lab Number Tested Windsor, ON : 28 Jun 2024 ISO 17025:2017 Accredited Laboratory Unique Number : 5801862 : 28 Jun 2024 - Kevin Marson CA N8W 5H8 Diagnosed Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel) Contact: Dave Varga To discuss this sample report, contact Customer Service at 1-800-268-2131. dvarga@gflenv.com T: (519)944-8009 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. F:

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