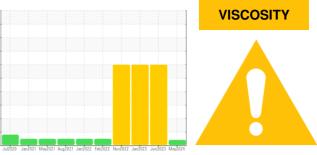


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 923001 Fluid

Component Diesel Engine

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

DIAGNOSIS

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

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

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.

SAMPLE INFORM		method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0113231	GFL0078511	GFL0071319
Sample Date		Client Info		02 May 2024	12 Jun 2023	20 Jan 2023
Machine Age	hrs	Client Info		0	0	9078
Oil Age	hrs	Client Info		10134	238525	152
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				ABNORMAL	SEVERE	SEVERE
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	4	12	5
Chromium	ppm	ASTM D5185(m)	>20	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	0	1 21	1 1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	6	3
Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<1	1	<1
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
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)	0	139	3	5
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	7	57	55
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	73	926	905
Calcium	ppm	ASTM D5185(m)	1070	2059	1093	1071
Phosphorus	ppm	ASTM D5185(m)	1150	899	1039	1047
Zinc	ppm	ASTM D5185(m)	1270	1053	1170	1145
Sulfur	ppm	ASTM D5185(m)	2060	2740	2495	2619
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	1	4	2
Sodium	ppm	ASTM D5185(m)		1	4	2
Potassium	ppm	ASTM D5185(m)	>20	4	<1	0
Fuel	%	ASTM D7593*	>3.0	0.6	2.6	<1.0
INFRA-RED		method	limit/base	current	history1	history2
INFRA-RED Soot %	%	method ASTM D7844*	limit/base	current 0	history1 0.2	history2 0
	% Abs/cm					



OIL ANALYSIS REPORT

FLUID DEGRADATION method

Abs/.1mm ASTM D7414*

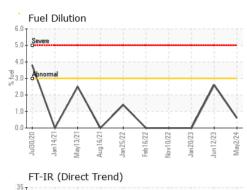
Oxidation

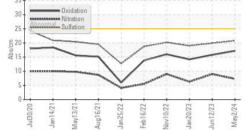
limit/base

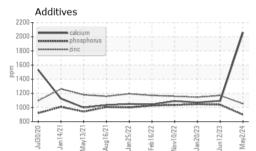
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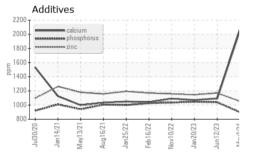
current

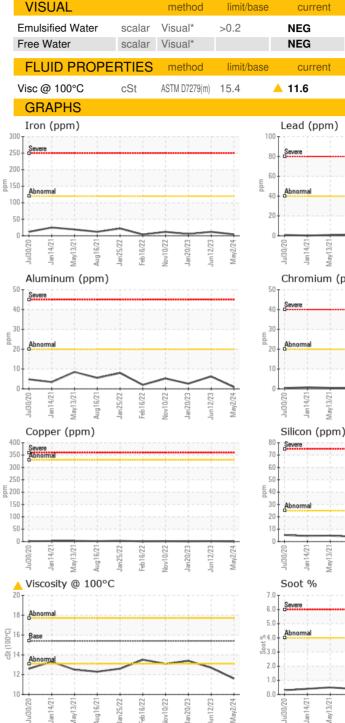
17.2

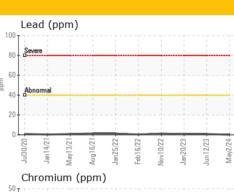












history1

history1

history⁻

15.8

NEG

NEG

12.7

history2

history2

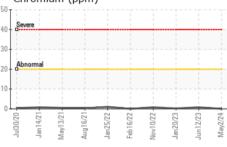
historv2

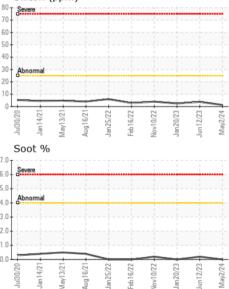
14.2

NEG

NEG

13.4





Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 246 - Windsor CALA Sample No. : GFL0113231 Received :06 May 2024 2700 Deziel Dr Lab Number : 02633408 Tested :07 May 2024 Windsor, ON ISO 17025:2017 Accredited Unique Number : 5774561 Diagnosed : 07 May 2024 - Kevin Marson CA N8W 5H8 Laboratory 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 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (519)944-8009 Validity of results and interpretation are based on the sample and information as supplied. E:

Report Id: GFL246 [WCAMIS] 02633408 (Generated: 05/07/2024 11:36:00) Rev: 1

Submitted By: Dave Varga Page 2 of 2