

OIL ANALYSIS REPORT

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Sample Rating Trend VISCOSITY



Machine Id
728004
Component
Diesel Engine
Fluid

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

DIAGNOSIS

Recommendation

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

Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

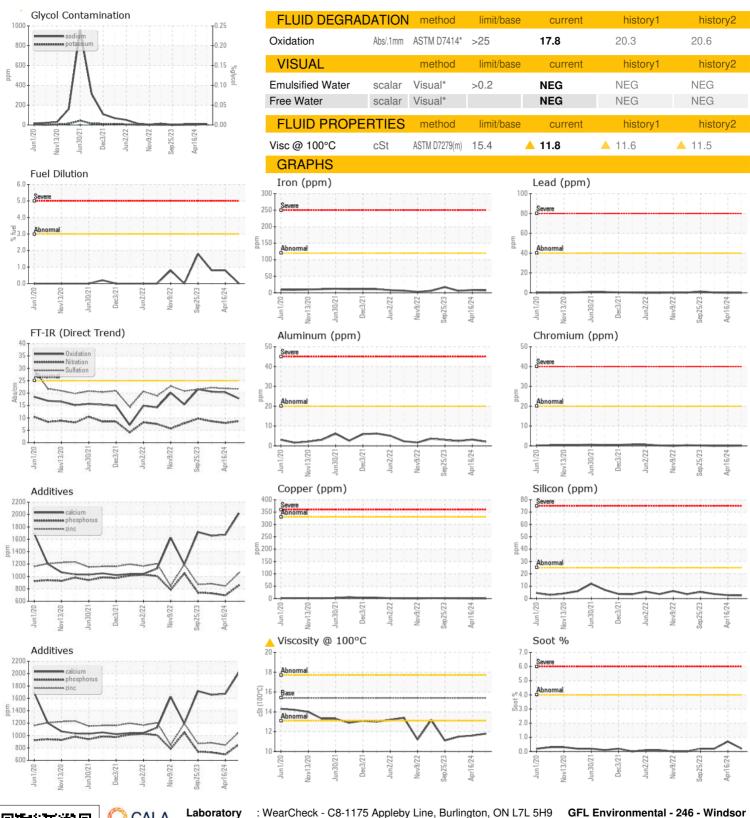
Fluid Condition

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 INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0113211	GFL0113243	GFL0097332
Sample Date		Client Info		08 Jul 2024	16 Apr 2024	04 Jan 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		13809	13277	12706
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	TION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>120	7	8	6
Chromium	ppm	ASTM D5185(m)	>20	<1	0	0
Nickel	ppm	ASTM D5185(m)	>5	1	1	1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	3	2
_ead	ppm	ASTM D5185(m)	>40	0	0	<1
Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
Γin	ppm	ASTM D5185(m)	>15	<1	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)	0	90	41	31
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	6	35	43
Manganese	ppm	ASTM D5185(m)	0	<1	<1	0
Magnesium	ppm	ASTM D5185(m)	1010	65	445	533
Calcium	ppm	ASTM D5185(m)	1070	2019	1674	1656
Phosphorus	ppm	ASTM D5185(m)	1150	857	694	728
Zinc	ppm	ASTM D5185(m)	1270	1055	844	881
Sulfur	ppm	ASTM D5185(m)	2060	2545	2019	2134
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINA	NTS	method	limit/base	current	history1	history2
		ASTM D5185(m)	>25	3	3	4
	ppm	710 1111 20 100(111)				
	ppm	ASTM D5185(m)		9	9	7
Sodium		ASTM D5185(m) ASTM D5185(m)	>20	9	2	7
Sodium Potassium	ppm	ASTM D5185(m)	>20 >3.0			
Sodium Potassium Fuel	ppm	ASTM D5185(m) ASTM D5185(m)		9	2	1
Sodium Potassium Fuel	ppm ppm %	ASTM D5185(m) ASTM D5185(m) ASTM D7593*		9 0.0	2 0.8	1 0.8
Sodium Potassium Fuel Glycol INFRA-RED	ppm ppm %	ASTM D5185(m) ASTM D5185(m) ASTM D7593* ASTM D7922*	>3.0	9 0.0 0.0	2 0.8 NEG	1 0.8 NEG
Silicon Sodium Potassium Fuel Glycol INFRA-RED Soot % Nitration	ppm ppm % %	ASTM D5185(m) ASTM D5185(m) ASTM D7593* ASTM D7922*	>3.0 limit/base	9 0.0 0.0 current	2 0.8 NEG history1	1 0.8 NEG history2



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: GFL0113211 Lab Number : 02646664

Unique Number : 5812216

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 09 Jul 2024 **Tested** : 12 Jul 2024

Diagnosed : 12 Jul 2024 - Kevin Marson Test Package : MOB 1 (Additional Tests: FUELDILUTION, Glycol, PercentFuel)

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.

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Submitted By: Dave Varga