

OIL ANALYSIS REPORT

Sample Rating Trend



726001 Component Diesel Engine Fluid

Machine Id

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

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0113194	GFL0113227	GFL007850
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
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMA
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
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)		0	0	<1
Copper	ppm	ASTM D5185(m)		<1	<1	<1
Tin	ppm	ASTM D5185(m)		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)	0	29	76	27
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	35	1	40
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	434	23	530
Calcium	ppm	. ,	1070	1642	2158	1588
Phosphorus		ASTM D5185(m) ASTM D5185(m)	1150	693	910	767
Zinc	ppm	ASTM D5185(m)	1270	857	1117	880
Sulfur	ppm ppm	ASTM D5185(m) ASTM D5185(m)	2060	1950	2673	1982
Lithium	ppm	ASTM D5185(m)	2000	<1	<1	<1
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	5	2	5
Sodium	ppm	ASTM D5185(m)		2	3	3
Potassium	ppm	ASTM D5185(m)	>20	<1	6	<1
Fuel	%	ASTM D7593*	>3.0	2	<1.0	2.2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0.3	0.4	0.3
Nitration	Abs/cm	ASTM D7624*	>20	8.2	8.9	7.3
initiation	7 100/0111					1.0

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

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

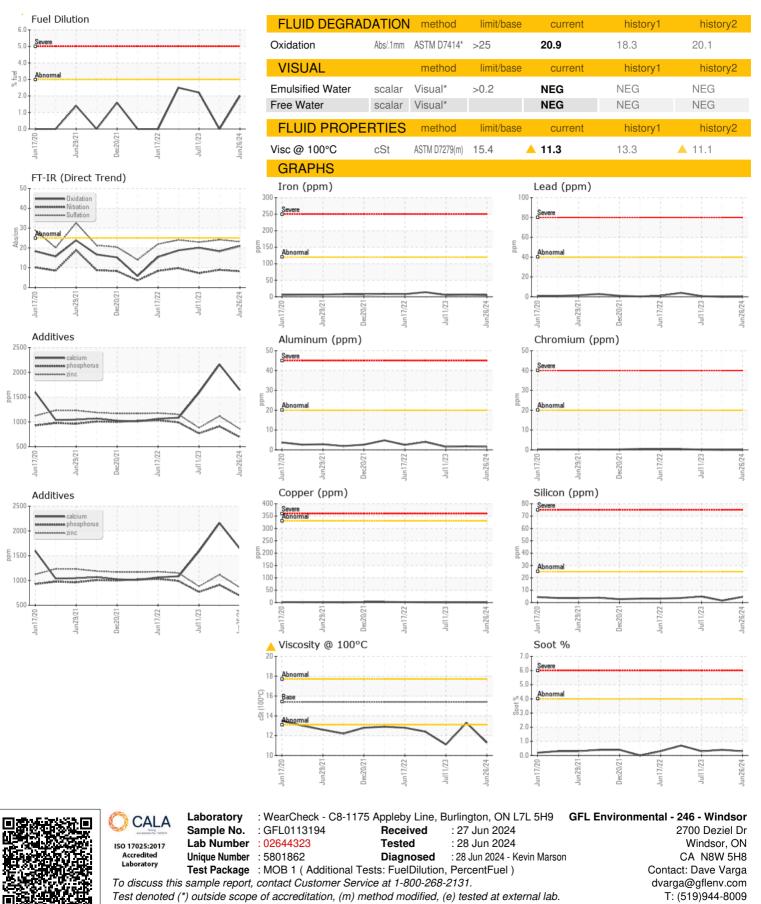
Fluid Condition

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.

VISCOSITY



OIL ANALYSIS REPORT



Validity of results and interpretation are based on the sample and information as supplied.

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Submitted By: Dave Varga Page 2 of 2

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