

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 8424

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (20 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

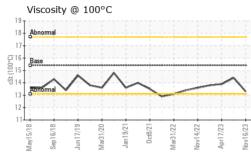
Fluid Condition

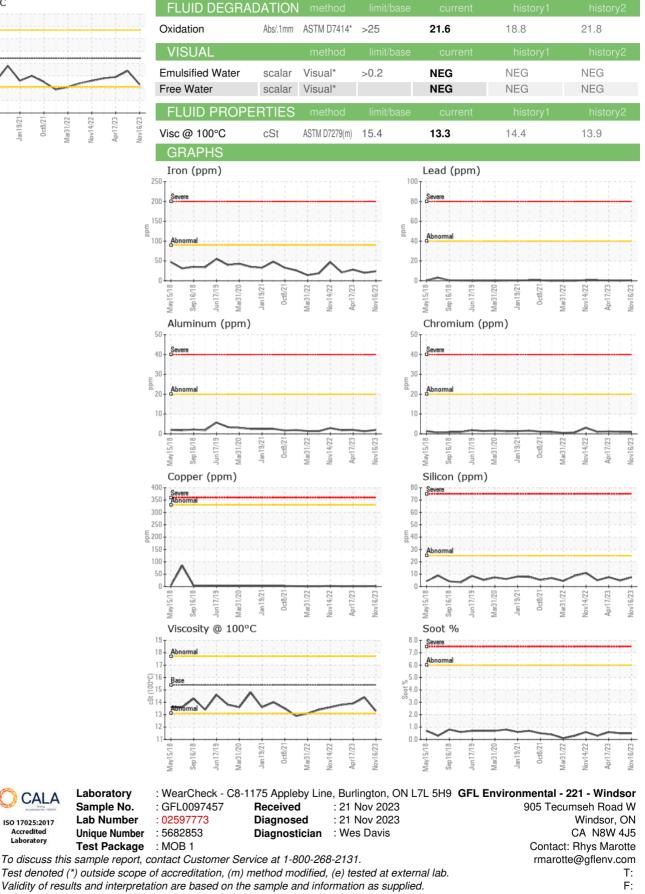
The condition of the oil is acceptable for the time in service.

			8 Jun2019 Mar2020 Jan2			
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0097457	GFL0077306	GFL0070429
Sample Date		Client Info		16 Nov 2023	17 Jul 2023	17 Apr 2023
Machine Age	hrs	Client Info		6371	6371	6371
Oil Age	hrs	Client Info		6371	6371	6371
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	6	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	24	20	28
Chromium	ppm	ASTM D5185(m)	>20	<1	1	1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	1	2
Lead	ppm	ASTM D5185(m)	>40	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>330	2	1	1
Tin	ppm	ASTM D5185(m)	>15	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	2	2	2
Barium	ppm	ASTM D5185(m)	0	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	60	58	60	59
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	915	982	917
Calcium	ppm	ASTM D5185(m)	1070	1008	1066	1100
Phosphorus	ppm	ASTM D5185(m)	1150	922	1073	1057
Zinc	ppm	ASTM D5185(m)	1270	1129	1218	1200
Sulfur	ppm	ASTM D5185(m)	2060	2272	2479	2409
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	٢S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	8	5	8
Sodium	ppm	ASTM D5185(m)		3	2	3
Potassium	ppm	ASTM D5185(m)	>20	0	1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.5	0.5	0.6
Nitration	Abs/cm	ASTM D7624*	>20	11.3	10.4	11.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.3	21.9	23.1



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CALA

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