

OIL ANALYSIS REPORT

Sample Rating Trend



828007 Component Diesel Engine

Machine Id

Fluid

PETRO CANADA DURON SHP 15W40 (22 GAL)

SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0107146	GFL0086759	GFL0063946
Sample Date		Client Info		16 Jan 2024	15 Jun 2023	24 Feb 2023
Machine Age	hrs	Client Info		11067	10203	9536
Oil Age	hrs	Client Info		0	10203	9536
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				MARGINAL	NORMAL	NORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>80	20	17	17
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	0
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>30	5	3	4
_ead	ppm	ASTM D5185(m)	>30	0	0	0
Copper	ppm	ASTM D5185(m)	>150	1	1	1
Гin	ppm	ASTM D5185(m)	>5	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
/anadium	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	22	3	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Nolybdenum	ppm	ASTM D5185(m)	60	64	61	60
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	967	976	958
Calcium	ppm	ASTM D5185(m)		1026	1120	1113
Phosphorus	ppm	ASTM D5185(m)	1150	943	1072	1070
Zinc	ppm	ASTM D5185(m)		1145	1214	1205
Sulfur	ppm	ASTM D5185(m)	2060	2657	2501	2509
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	5	4	4
Sodium	ppm	ASTM D5185(m)		111	16	3
Potassium	ppm	ASTM D5185(m)	>20	29	13	5
Fuel	%	ASTM D7593*	>5	▲ 3.1	<1.0	<1.0
Glycol	%	ASTM D7922*		0.0	0.0	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.5	0.4	0.2
Nitration	Abs/cm			11.4	9.6	10.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.4	21.3	22.8

DIAGNOSIS

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

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



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