

OIL ANALYSIS REPORT

Sample Rating Trend





Diesel Engine

PETRO CANADA DURON SHP 15W40 (40 LTR)

SAMPLE INFOR	RMATION	method	limit/base	current	history1	history
Sample Number		Client Info		GFL0094393	GFL0086793	GFL008676
Sample Date		Client Info		30 Oct 2023	25 Jul 2023	06 Jul 2023
Machine Age	hrs	Client Info		260171	260171	260171
Oil Age	hrs	Client Info		260171	260171	14986
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history
Fuel		WC Method	>3.0	<1.0	0.8	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history
Iron	ppm	ASTM D5185(m)	>120	8	2	7
Chromium	ppm	ASTM D5185(m)	>20	0	0	<1
Nickel	ppm	ASTM D5185(m)	>15	0	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>3	۰ <1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	4	2	4
Lead	ppm	ASTM D5185(m)	>40	2	<1	1
Copper	ppm	ASTM D5185(m)	>330	2 <1	<1	<1
Tin		ASTM D5185(m)	>330	<1	0	0
Antimony	ppm ppm	ASTM D5185(m)	210	0	0	0
Vanadium		ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
	ppm		L'and to the second	-	-	-
ADDITIVES		method	limit/base	current	history1	history
Boron	ppm	ASTM D5185(m)	0	25	53	15
Barium	ppm	ASTM D5185(m)	0	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	60	99	76	43
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	58	70	131
Calcium	ppm	ASTM D5185(m)	1070	2523	2061	2149
Phosphorus	ppm	ASTM D5185(m)	1150	1120	1022	1005
Zinc	ppm	ASTM D5185(m)	1270	1369	1113	1123
Sulfur	ppm	ASTM D5185(m)	2060	3412	3068	2940
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINA	NTS	method	limit/base	current	history1	history
Silicon	ppm	ASTM D5185(m)	>25	4	3	4
Sodium	ppm	ASTM D5185(m)		5	3	5
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
INFRA-RED		method	limit/base	current	history1	history
Soot %	%	ASTM D7844*	>4	0.3	0	0.1
Nitration	Abs/cm	ASTM D7624*	>20	9.4	7.9	8.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.8	18.1	20.4
FLUID DEGRA	DATION	method	limit/base	current	history1	history
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.4	13.0	14.5
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.4	13.0 Submitted By:	14.5 Kim Thomp

DIAGNOSIS Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. 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

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

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Submitted By: Kim Thompson



Additives

300

2500

200

1000

500

3000

250

200

1000

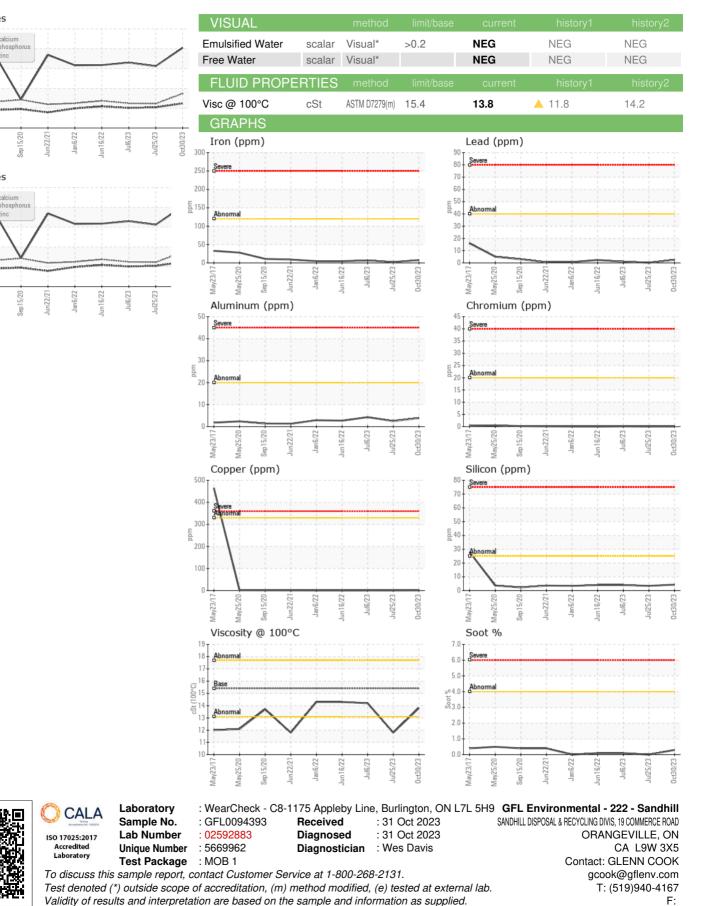
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Additives

UC/2C/DU

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