

OIL ANALYSIS REPORT

Sample Rating Trend





DIAGNOSIS Recommendation

monitor. Wear

breaking in.

Fluid Condition

oil.

Machine Id 910081

Fluid

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to

Metal levels are typical for a new component

There is no indication of any contamination in the

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.

Component Diesel Engine

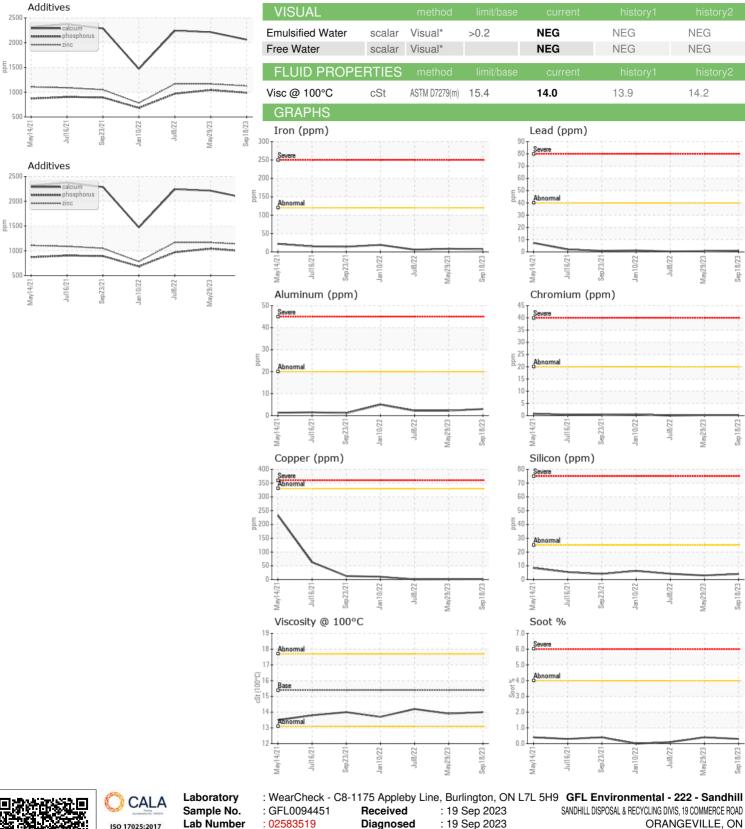
PETRO CANADA DURON SHP 15W40 (--- LTR)

SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0094451	GFL0063930	GFL0042869
Sample Date		Client Info		18 Sep 2023	29 May 2023	08 Jul 2022
Machine Age	kms	Client Info		82450	82450	82450
Oil Age	kms	Client Info		82450	82450	3860
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>120	7	9	6
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	0
Nickel	ppm	ASTM D5185(m)	>5	0	<1	0
Titanium	ppm	ASTM D5185(m)		<1	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)		3	2	2
Lead	ppm	ASTM D5185(m)	>40	1	<1	<1
Copper	ppm	ASTM D5185(m)		2	1	<1
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Antimony	ppm	ASTM D5185(m)	>15	0	<1	0
Vanadium		ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm ppm	ASTM D5185(m)		0	0	0
ADDITIVES	ppm	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	15	19	36
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	83	63	84
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Vagnesium	ppm	ASTM D5185(m)	1010	84	140	24
Calcium	ppm	ASTM D5185(m)		2061	2212	2242
Phosphorus	ppm	ASTM D5185(m)	1150	988	1043	969
Zinc	ppm	ASTM D5185(m)	1270	1128	1167	1168
Sulfur	ppm	ASTM D5185(m)	2060	2653	3018	3110
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	3	4
Sodium	ppm	ASTM D5185(m)		5	4	5
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0.3	0.4	0.1
Nitration	Abs/cm	ASTM D7624*	>20	9.5	9.5	8.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.4	20.2	21.5
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Ale / dama	ASTM D7414*	05	10.0	14.5	14.4
Oxidation	ADS/.1mm	ASTIVI D7414	>25	16.2	14.0	14.4

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SANDHILL DISPOSAL & RECYCLING DIVIS, 19 COMMERCE ROAD ORANGEVILLE, ON CA L9W 3X5 Contact: GLENN COOK gcook@gflenv.com T: (519)940-4167 F:

18/2



Accredited Laboratory Test Package : MOB 1 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.

: 5644584

Diagnosed

Diagnostician

: Wes Davis

Unique Number

NEG

NEG

14.2

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Mav29/23

av29/23

en18/7

Sep18/23

Pu18/7

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