

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 525003 Component

Diesel Engine

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

DIAGNOSIS
Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

🛑 Wear

Nickel ppm levels are severe. Exhaust valve wear is indicated.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORM	AHON	method	iiiiii/base	Current	Thistory I	TIStoryz
Sample Number		Client Info		GFL0102854	GFL0090866	GFL0071324
Sample Date		Client Info		18 Jan 2024	02 Aug 2023	09 Feb 2023
Machine Age	hre	Client Info		18530	18155	17717
	hre	Client Info		0	0	159
	1115	Client Info			0 Observersed	4J0
		Client Into			Changed	Changed
Sample Status				SEVERE	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
WEAR METALS	5	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	13	16	15
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	9	4	2
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	9	10	8
Lead	ppm	ASTM D5185(m)	>40	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>330	5	4	3
Tin	ppm	ASTM D5185(m)	>15	<1	0	<1
Antimony	mag	ASTM D5185(m)		0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Bervllium	nnm	ASTM D5185(m)		0	0	0
Cadmium	nnm	ASTM D5185(m)		0	0	0
oddiniani	ppm			J	0	Ű
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	6	34	4
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	58	59	58
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	852	494	943
Calcium	ppm	ASTM D5185(m)	1070	1118	1734	1128
Phosphorus	ppm	ASTM D5185(m)	1150	990	1095	1084
Zinc	ppm	ASTM D5185(m)	1270	1137	1237	1200
Sulfur	ppm	ASTM D5185(m)	2060	2694	2830	2696
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	5	10
Sodium	ppm	ASTM D5185(m)		4	4	6
Potassium	ppm	ASTM D5185(m)	>20	6	9	8
Glycol	%	ASTM D7922*	-	0.0	0.0	0.0
		mothed	limit/bogs	ourront	history	history?
	0/			current		nistory2
500t %	%	ASTM D/844*	>4	0.3	0.4	0
Nitration	Abs/cm	ASTM D7624*	>20	8.5	8.9	4.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.8	21.2	15.8



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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.

Submitted By: Dave Varga

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F:

T: (519)944-8009