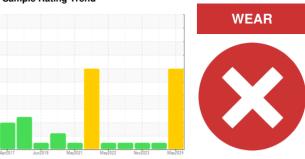


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
4526
Component
Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- LTR)

DIAGNOSIS

▲ Recommendation

The oil change at the time of sampling has been noted. 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

Fluid Condition

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

.TR)		Apr2017	Jun2018 May2021	May2022 Nov2023	May2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0118958	GFL0101717	GFL0097628
Sample Date		Client Info		03 May 2024	27 Nov 2023	15 Nov 2023
Machine Age	hrs	Client Info		17454	17027	18531
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				SEVERE	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>2.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	24	2	4
Chromium	ppm	ASTM D5185(m)	>20	2	0	<1
Nickel	ppm	ASTM D5185(m)	>4	1 0	<1	3
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	3	<1	2
Lead	ppm	ASTM D5185(m)	>40	4	0	0
Copper	ppm	ASTM D5185(m)	>330	2	<1	<1
Tin	ppm	ASTM D5185(m)	>15	<1	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)	2	2	3	10
Barium	ppm	ASTM D5185(m)		0	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	65	57	61
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	950	1054	928	947
Calcium	ppm	ASTM D5185(m)	1050	1167	996	1065
Phosphorus	ppm	ASTM D5185(m)	995	1084	962	1003
Zinc	ppm	, ,	1180	1263	1135	1161
Sulfur	ppm	ASTM D5185(m)	2600	2584	2567	2611
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	8	6	7
Sodium	ppm	ASTM D5185(m)	0.5	2	1	2
Potassium	ppm	ASTM D5185(m)	>20	2	0	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	1.1	0	0.2
Nitration	Abs/cm	ASTM D7624*	>20	11.9	4.9	6.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.8	18.0	19.4



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: GFL0118958

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Lab Number : 02634038 Unique Number : 5775191

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW Received **Tested**

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.

: 08 May 2024 : 08 May 2024 Diagnosed Test Package : MOB 1 (Additional Tests: KV40, VI)

: 08 May 2024 - Kevin Marson

8409 -15th Street NW Edmonton, AB **CA T6P 0B8** Contact: Tim Greig tgreig@gflenv.com T: (780)231-0521

Report Id: GFL554 [WCAMIS] 02634038 (Generated: 05/08/2024 14:31:04) Rev: 1

Submitted By: Brian Gagne