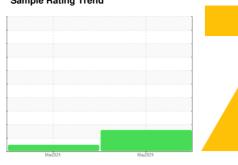


OIL ANALYSIS REPORT

Sample Rating Trend



DIRT

Machine Id 5596 **Diesel Engine**

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

DIAGNOSIS

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate concentration of dirt present in the oil.

Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

TR)			Mar2024	May2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0112492	GFL0102663	
Sample Date		Client Info		07 May 2024	05 Mar 2024	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
-uel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>80	10	30	
Chromium	ppm	ASTM D5185(m)	>5	<1	1	
Nickel	ppm	ASTM D5185(m)	>2	0	<1	
Γitanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)	>3	0	0	
Aluminum	ppm	ASTM D5185(m)	>30	2	2	
_ead	ppm	ASTM D5185(m)	>30	1	5	
Copper	ppm	ASTM D5185(m)	>150	3	9	
Γin	ppm	ASTM D5185(m)	>5	0	<1	
Antimony	ppm	ASTM D5185(m)		0	0	
√anadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	8	6	
Barium	ppm	ASTM D5185(m)	0	0	5	
Molybdenum	ppm	ASTM D5185(m)	50	60	60	
Manganese	ppm	ASTM D5185(m)	0	0	0	
Magnesium	ppm	ASTM D5185(m)	950	979	955	
Calcium	ppm	ASTM D5185(m)	1050	1092	1112	
Phosphorus	ppm	ASTM D5185(m)	995	1013	1003	
Zinc	ppm	ASTM D5185(m)	1180	1182	1196	
Sulfur	ppm	ASTM D5185(m)	2600	2612	2597	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	<u> </u>	16	
Sodium	ppm	ASTM D5185(m)		6	13	
Potassium	ppm	ASTM D5185(m)	>20	0	2	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	0	
Nitration	Abs/cm	ASTM D7624*	>20	6.3	9.2	
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.2	21.4	



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02634077

: GFL0112492

Unique Number : 5775230 Test Package : MOB 1

Received : 08 May 2024 **Tested** : 08 May 2024

Diagnosed : 08 May 2024 - Kevin Marson

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW 8409 -15th Street NW Edmonton, AB **CA T6P 0B8** Contact: Tim Greig tgreig@gflenv.com

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.

T: (780)231-0521