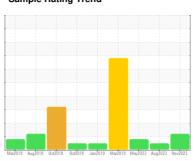


OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 4784 Component

Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- 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

All component wear rates are normal.

Contamination

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

GAL)		Mar2018 Aug	2018 Oct2018 Oct2018	Jan 2019 Mar 2019 May 2023 Aug 20	23 Nov2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0097603	GFL0090613	GFL0072815
Sample Date		Client Info		03 Nov 2023	17 Aug 2023	24 May 2023
Machine Age	hrs	Client Info		8522	3403	896
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>110	6	48	56
Chromium	ppm	ASTM D5185(m)	>4	<1	2	2
Nickel	ppm	ASTM D5185(m)	>2	0	<1	1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>2	<1	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	1	5	4
Lead	ppm	ASTM D5185(m)	>45	1	25	17
		ASTM D5185(m)	>85	2	80	▲ 341
Copper	ppm	. ,		0		3
Tin	ppm	ASTM D5185(m)	>4		3	
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	2	<1
Barium	ppm	ASTM D5185(m)	0	<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)	50	54	55	62
Manganese	ppm	ASTM D5185(m)	0	0	<1	1
Magnesium	ppm	ASTM D5185(m)	950	863	881	1011
Calcium	ppm	ASTM D5185(m)	1050	936	942	1137
Phosphorus	ppm	ASTM D5185(m)	995	896	900	1059
Zinc	ppm	ASTM D5185(m)	1180	1082	1060	1225
Sulfur	ppm	ASTM D5185(m)	2600	2339	1898	2044
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	2	7	9
Sodium	ppm	ASTM D5185(m)		3	6	8
Potassium	ppm	ASTM D5185(m)	>20	0	2	2
Fuel	%	ASTM D7593*	>5	△ 7.9	<1.0	1.7
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.1	1	1.1
Nitration	Abs/cm	ASTM D7644*	>20	6.2	11.2	10.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.0	26.0	22.9
FLUID DEGRAD			limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.6	25.3	20.3



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW : GFL0097603 Received : 13 Nov 2023 : 02595716 Diagnosed : 5672795

: 14 Nov 2023 Diagnostician : Wes Davis **Test Package**: MOB 1 (Additional Tests: FuelDilution, PercentFuel)

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.

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