

OIL ANALYSIS REPORT

Sample Rating Trend

Machine Id 728050-361688

Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

JAL)		in2019 Apr20	120 Nov2022 May2023	Jul2023 Nov2023 Jan2024	Apr2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0121567	GFL0105058	GFL0105111
Sample Date		Client Info		08 Jul 2024	25 Apr 2024	01 Apr 2024
Machine Age	hrs	Client Info		3155	3096	2947
Oil Age	hrs	Client Info		600	150	150
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				ATTENTION	SEVERE	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	7	38	6
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	6	1
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	2	4	<1
Tin	ppm	ASTM D5185m	>15	<1	2	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	99	30	0
Barium	ppm	ASTM D5185m	0	0	1	0
Molybdenum	ppm	ASTM D5185m	60	8	250	59
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	670	871	951
Calcium	ppm	ASTM D5185m	1070	1217	955	1066
Phosphorus	ppm	ASTM D5185m	1150	680	1040	1031
Zinc	ppm	ASTM D5185m	1270	785	1233	1276
Sulfur	ppm	ASTM D5185m	2060	2839	3747	3675
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	9	2
Sodium	ppm	ASTM D5185m		29	<u> </u>	6
Potassium	ppm	ASTM D5185m	>20	35	🔺 1105	<1
Fuel	%	ASTM D3524	>5	0.5	<1.0	<1.0
Glycol	%	*ASTM D2982		NEG	▲ 0.20	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.5	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.6	19.1	6.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.4	9.8	18.0
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.8	20.8	14.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.9	35.1	8.4

VISCOSITY



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 To discuss this sample report, contact Customer Service at 1-800-237-1369.
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 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

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