

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

429059-402467

Component Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0121215	GFL0118620	GFL0099322
Sample Date		Client Info		03 Jun 2024	15 Apr 2024	25 Mar 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	0.2	<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 D5185m	>110	6	11	7
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		6	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	2	3
Lead	ppm	ASTM D5185m	>45	1	2	2
Copper	ppm	ASTM D5185m	>85	<1	0	<1
Tin	ppm	ASTM D5185m	>4	0	0	2
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	92	3	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	26	62	54
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	414	988	887
Calcium	ppm	ASTM D5185m	1070	1681	1321	1180
Phosphorus	ppm	ASTM D5185m	1150	1002	1029	928
Zinc	ppm	ASTM D5185m	1270	1170	1341	1181
Sulfur	ppm	ASTM D5185m	2060	3719	3830	3411
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	6	3	3
Sodium	ppm	ASTM D5185m		2	3	4
Potassium	ppm	ASTM D5185m	>20	3	1	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.4	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.9	7.9	7.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	19.8	18.7
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
FLUID DEGRAD	DATION Abs/.1mm	method *ASTM D7414	limit/base	current 15.4	history1 15.6	history2 14.9

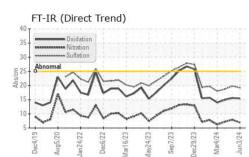


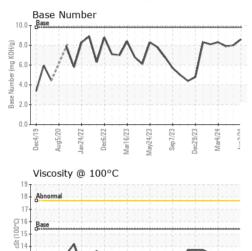
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OIL ANALYSIS REPORT





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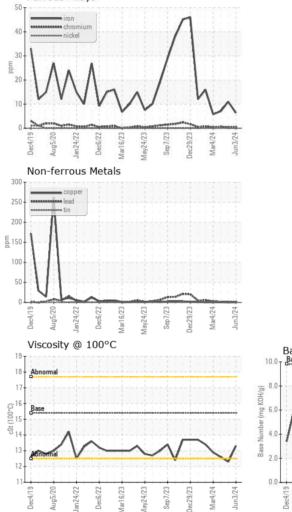
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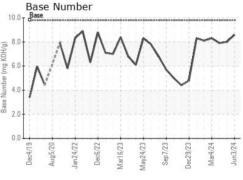
Mar4/24

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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	12.3	12.6
GRAPHS						

Ferrous Alloys





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 846 - Mayfield Hauling Sample No. : GFL0121215 Received : 07 Jun 2024 3426 State Route 45 Lab Number : 06202490 Tested : 11 Jun 2024 Mayfield, KY US 42066 Unique Number : 11069951 Diagnosed : 11 Jun 2024 - Sean Felton Test Package : FLEET Contact: Jack Lindsey Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. jack.lindsey@gflenv.com T: (270)970-3690 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. F:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: Jack Lindsey - GFL846

Report Id: GFL846 [WUSCAR] 06202490 (Generated: 06/11/2024 14:13:44) Rev: 1

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