

OIL ANALYSIS REPORT

Sample Rating Trend









Area (48009UA)
Machine Id 720052
Component

Diesel Engine

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

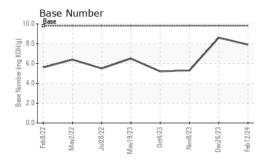
Fluid Condition

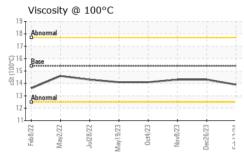
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Feb 2022 N	May2022 Jul2022 May20				
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0108295	GFL0098260	GFL0098244	
Sample Date		Client Info		12 Feb 2024	26 Dec 2023	08 Nov 2023	
Machine Age	hrs	Client Info		5400	5110	4772	
Oil Age	hrs	Client Info		2590	2638	2447	
Oil Changed		Client Info		Not Changd	N/A	N/A	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<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 D5185m	>80	12	14	59	
Chromium	ppm	ASTM D5185m	>5	<1	<1	2	
Nickel	ppm	ASTM D5185m	>2	0	0	<1	
Titanium	ppm	ASTM D5185m		<1	<1	<1	
Silver	ppm	ASTM D5185m	>3	0	0	<1	
Aluminum	ppm	ASTM D5185m	>30	2	1	3	
Lead	ppm	ASTM D5185m	>30	0	0	<1	
Copper	ppm	ASTM D5185m	>150	2	1	6	
Tin	ppm	ASTM D5185m	>5	0	<1	<1	
Vanadium	ppm	ASTM D5185m		0	<1	<1	
Cadmium	ppm	ASTM D5185m		0	0	<1	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	3	13	6	
Barium	ppm	ASTM D5185m	0	12	0	<1	
Molybdenum	ppm	ASTM D5185m	60	59	57	67	
Manganese	ppm	ASTM D5185m	0	0	<1	1	
Magnesium	ppm	ASTM D5185m	1010	920	917	969	
Calcium	ppm	ASTM D5185m	1070	1104	1092	1182	
Phosphorus	ppm	ASTM D5185m	1150	1055	999	1003	
Zinc	ppm	ASTM D5185m	1270	1213	1221	1301	
Sulfur	ppm	ASTM D5185m	2060	3460	2980	2901	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>20	7	4	9	
Sodium	ppm	ASTM D5185m		2	3	4	
Potassium	ppm	ASTM D5185m	>20	2	0	7	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.4	0.3	1.1	
Nitration	Abs/cm	*ASTM D7624	>20	8.7	6.9	13.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	19.1	26.8	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.8	14.9	23.9	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.9	8.6	5.3	
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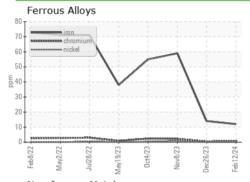


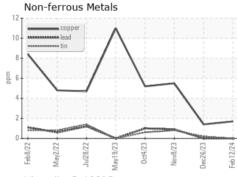


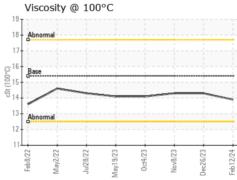
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

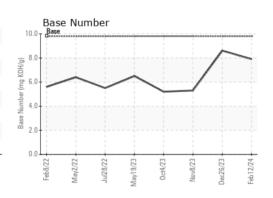
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	14.3	14.3

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number : 06088660

: GFL0108295

Unique Number : 10876105 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Feb 2024 **Tested**

: 15 Feb 2024 Diagnosed : 15 Feb 2024 - Wes Davis

GFL Environmental - 652 - Fredericksburg Hauling

10954 Houser Drive Fredericksburg, VA US 22408

Contact: WILLIAM MILO wmilo@gflenv.com

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - 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)

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