

OIL ANALYSIS REPORT

Sample Rating Trend









(P837499)
Machine Id
2623
Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (8 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

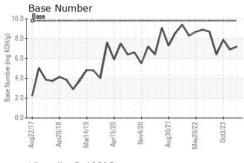
Fluid Condition

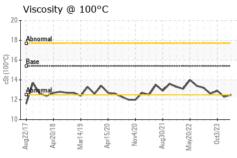
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

	ig2017 Αρνί2018 Ματ2019 Αρνί2020 Νονί2020 Αυφί2021 Μανί2022 Οκαί2023						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0110372	GFL0096914	GFL0050891	
Sample Date		Client Info		12 Feb 2024	08 Feb 2024	03 Oct 2023	
Machine Age	hrs	Client Info		14118	14107	13542	
Oil Age	hrs	Client Info		13542	565	13121	
Oil Changed		Client Info		Changed	Not Changd	Changed	
Sample Status				NORMAL	MARGINAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>3.0	<1.0	1.3	<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	>120	5	8	4	
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>5	<1	<1	0	
Titanium	ppm	ASTM D5185m	>2	<1	<1	0	
Silver	ppm	ASTM D5185m	>2	<1	0	0	
Aluminum	ppm	ASTM D5185m	>20	1	2	6	
Lead	ppm	ASTM D5185m	>40	1	<1	0	
Copper	ppm	ASTM D5185m	>330	2	2	<1	
Tin	ppm	ASTM D5185m	>15	<1	<1	0	
Vanadium	ppm	ASTM D5185m		<1	0	0	
Cadmium	ppm	ASTM D5185m		<1	<1	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	10	11	15	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	63	68	63	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	834	921	821	
Calcium	ppm	ASTM D5185m	1070	1048	1154	996	
Phosphorus	ppm	ASTM D5185m	1150	922	986	932	
Zinc	ppm	ASTM D5185m	1270	1101	1241	1105	
Sulfur	ppm	ASTM D5185m	2060	3171	2982	3183	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	5	6	4	
Sodium	ppm	ASTM D5185m		0	0	2	
Potassium	ppm	ASTM D5185m	>20	2	2	1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	0.1	0.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	7.3	7.6	5.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	18.2	17.1	
FLUID DEGRAI	OATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	14.6	13.1	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.2	6.9	7.9	
_ ===== (=====			3.0		0.0		



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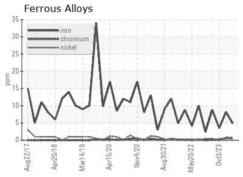


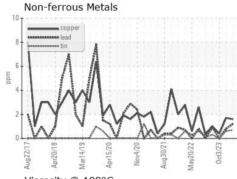


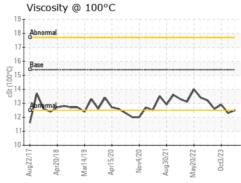
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

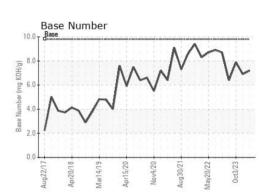
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.5	<u> </u>	12.9

GRAPHS













Certificate L2367

Laboratory Sample No.

: GFL0110372 Lab Number : 06090769 Unique Number : 10883622 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Feb 2024 **Tested**

: 19 Feb 2024 Diagnosed : 19 Feb 2024 - Wes Davis

GFL Environmental - 031 - Greenville/Spartanburg

1635 Antioch Church Rd Piedmont, SC US 29673

Contact: TECHNICIAN ACCOUNT catherine.anastasio@wearcheck.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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