

OIL ANALYSIS REPORT

Sample Rating Trend







Area (P638954)
Machine Id 2435
Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (12 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

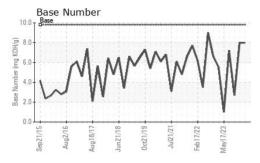
Fluid Condition

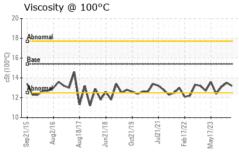
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

CAMPLE INCOM	MATION	motherd	limit/le e e	O. Williams	biotomit	biotow O
SAMPLE INFORI	WATION		limit/base	current	history1	history2
Sample Number		Client Info		GFL0110380	GFL0096945	GFL0096938
Sample Date		Client Info		15 Feb 2024	29 Jan 2024	03 Jan 2024
Machine Age	hrs	Client Info		28020	27966	24938
Oil Age	hrs	Client Info		0	27966	24938
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<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	>120	4	2	21
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m		1	2	1
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m		1	<1	1
Tin		ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m	>10	<1	0	0
Cadmium		ASTM D5185m		<1	0	0
	ppm	ASTIVI DOTOSITI		< 1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	10	11	11
Barium	ppm	ASTM D5185m	0	0	<1	11
Molybdenum	ppm	ASTM D5185m	60	59	57	61
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	879	858	778
Calcium	ppm	ASTM D5185m	1070	1035	970	1025
Phosphorus	ppm	ASTM D5185m	1150	953	986	1027
Zinc	ppm	ASTM D5185m	1270	1134	1140	1053
Sulfur	ppm	ASTM D5185m	2060	3539	2881	3197
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	3	4
Sodium	ppm	ASTM D5185m		0	<1	2
Potassium	ppm	ASTM D5185m	>20	2	<1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.2	0.1	0.6
Nitration	Abs/cm	*ASTM D7624	>20	7.0	6.1	14.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	18.6	30.2
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	14.7	31.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.0	8.0	△ 2.7
_ 5.55 . Tabor (D/4)	9		5.0	0.0	0.0	



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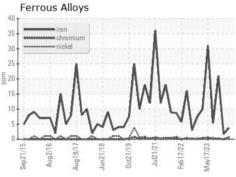


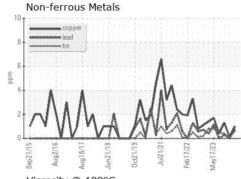


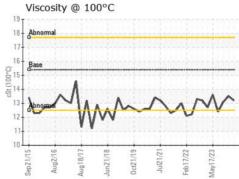
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

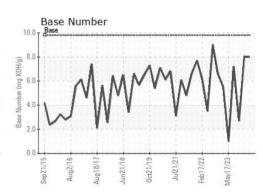
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	13.5	13.1

GRAPHS













Laboratory Sample No.

Lab Number : 06092153 Unique Number: 10885006

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : GFL0110380 : 16 Feb 2024

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

GFL Environmental - 031 - Greenville/Spartanburg

catherine.anastasio@wearcheck.com

1635 Antioch Church Rd Piedmont, SC

US 29673 Contact: TECHNICIAN ACCOUNT

Test Package : FLEET Certificate L2367 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)

Report Id: GFL031 [WUSCAR] 06092153 (Generated: 02/19/2024 10:11:30) Rev: 1

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