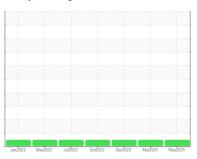


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 928040 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

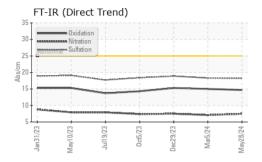
Fluid Condition

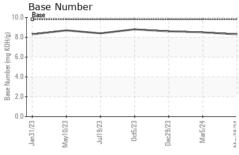
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

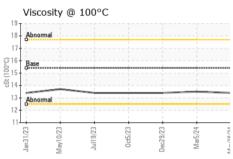
JAL)		Janzuza	May2023 Jul2023	OCIZUZ3 DeCZUZ3 MIAIZUZ4	May2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0123784	GFL0113001	GFL0108400	
Sample Date		Client Info		28 May 2024	05 Mar 2024	29 Dec 2023	
Machine Age	hrs	Client Info		7348	6760	6159	
Oil Age	hrs	Client Info		7348	6760	6159	
Oil Changed		Client Info		Changed	Changed	Changed	
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	>110	3	6	2	
Chromium	ppm	ASTM D5185m	>4	0	<1	0	
Nickel	ppm	ASTM D5185m	>2	0	0	0	
Titanium	ppm	ASTM D5185m		0	<1	0	
Silver	ppm	ASTM D5185m	>2	0	<1	0	
Aluminum	ppm	ASTM D5185m	>25	<1	2	1	
Lead	ppm	ASTM D5185m	>45	0	<1	<1	
Copper	ppm	ASTM D5185m	>85	<1	<1	<1	
Tin	ppm	ASTM D5185m	>4	0	<1	<1	
Vanadium	ppm	ASTM D5185m		0	<1	0	
Cadmium	ppm	ASTM D5185m		0	<1	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	0	0	<1	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	60	64	57	
Manganese	ppm	ASTM D5185m	0	0	<1	0	
Magnesium	ppm	ASTM D5185m	1010	979	1026	966	
Calcium	ppm	ASTM D5185m	1070	1098	1126	1043	
Phosphorus	ppm	ASTM D5185m	1150	1075	1153	1102	
Zinc	ppm	ASTM D5185m	1270	1264	1304	1227	
Sulfur	ppm	ASTM D5185m	2060	3586	3550	3144	
CONTAMINANTS method limit/base current history1 history2							
Silicon	ppm	ASTM D5185m	>30	0	3	2	
Sodium	ppm	ASTM D5185m		1	0	<1	
Potassium	ppm	ASTM D5185m	>20	0	2	0	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	7.5	7.1	7.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	18.3	18.9	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	15.0	15.3	
Base Number (BN)	mg KOH/g	ASTM D2896		8.3	8.5	8.6	
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OIL ANALYSIS REPORT



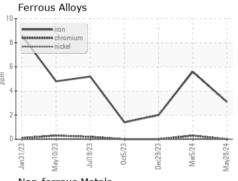




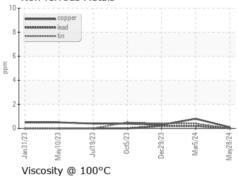
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

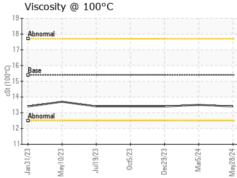
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.5	13.4

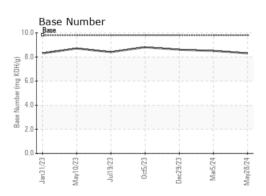
GRAPHS



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Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0123784 Lab Number : 06198842 Unique Number : 11060965

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

Test Package : FLEET

Received : 04 Jun 2024 **Tested** Diagnosed

: 05 Jun 2024 : 05 Jun 2024 - Wes Davis

GFL Environmental - 918 - Hartland HC

630 E Industrial Drive Hartland, WI

US 53029 Contact: David McCall david.mccall@gflenv.com

* - 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)

T: (262)369-3069