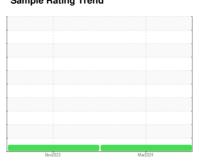


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 520067 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- G

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

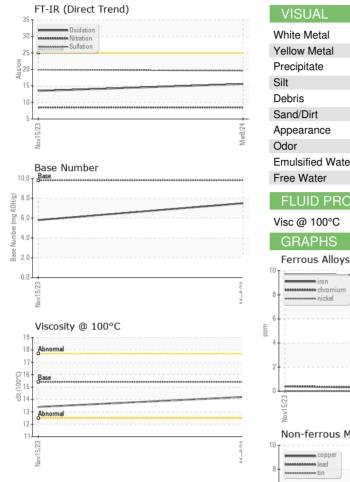
Fluid Condition

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

AL)			Nov2023	Mar2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0095216	GFL0095194	
Sample Date		Client Info		08 Mar 2024	15 Nov 2023	
Machine Age	hrs	Client Info		600	0	
Oil Age	hrs	Client Info		600	600	
Oil Changed	1110	Client Info		Changed	Changed	
Sample Status		Onorie iriio		NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
	ION					
Fuel		WC Method	>5	<1.0	<1.0	
<i>N</i> ater		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	10	10	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	5	5	
_ead	ppm	ASTM D5185m	>40	0	<1	
Copper	ppm	ASTM D5185m	>330	2	2	
Γin	ppm	ASTM D5185m	>15	<1	1	
√anadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	5	11	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	57	54	
Manganese	ppm	ASTM D5185m	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	890	194	
Calcium	ppm	ASTM D5185m	1070	1279	2235	
Phosphorus	ppm	ASTM D5185m	1150	1066	1036	
Zinc	ppm	ASTM D5185m	1270	1297	1206	
Sulfur	ppm	ASTM D5185m	2060	3542	3958	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	4	
Sodium	ppm	ASTM D5185m		<1	<1	
Potassium	ppm	ASTM D5185m	>20	3	2	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	8.5	8.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	19.9	
FLUID DEGRA	DAT <u>IO</u> N	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6	13.5	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.5	5.8	
Dasc Hamber (DIV)	my NOTI/y	70 INI D2030	3.0	1.5	0.0	

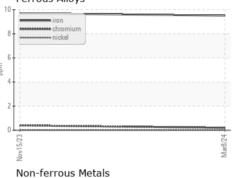


OIL ANALYSIS REPORT

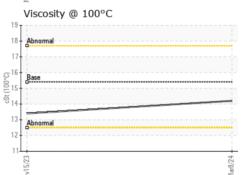


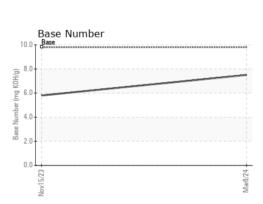
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FILLID PROPERTIES						

FLUID PROPE	ERITES	method	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	13.4	



	10-	
	8	copper sassassassas lead tin
	6.	
mdd	4.	
	2	
	0.	
		Nov15/23
		Viscosity @ 100°C









Certificate 12367

Laboratory Sample No.

Lab Number : 06228293

: GFL0095216 Unique Number : 11111786

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Tested

: 05 Jul 2024 : 08 Jul 2024 Diagnosed

: 08 Jul 2024 - Wes Davis

GFL Environmental - 421 - Huntington Road Hauling 3204 Lower Huntington Rd FORT WAYNE, IN

US 46809 Contact: MICHAEL MUGG MMUGG@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)

Report Id: GFL421 [WUSCAR] 06228293 (Generated: 07/09/2024 09:39:59) Rev: 1

Test Package : FLEET

Contact/Location: see also GFL421A - MICHAEL MUGG - GFL421

T:

F: