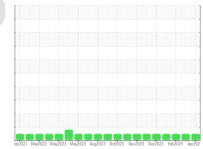


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id

811042-101311

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

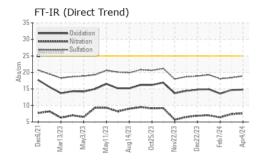
Fluid Condition

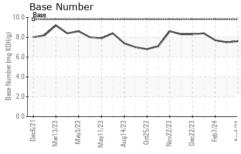
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

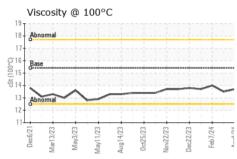
GAL)		lec2021 Mar20	23 May2023 May2023 Aug21	023 Oct2023 Nov2023 Dec2023 Fel	52024 Apr202				
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0115393	GFL0115353	GFL0110916			
Sample Date		Client Info		04 Apr 2024	29 Feb 2024	07 Feb 2024			
Machine Age	hrs	Client Info		5302	5130	4976			
Oil Age	hrs	Client Info		172	4976	268			
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	>100	17	18	14			
Chromium	ppm	ASTM D5185m	>20	1	1	1			
Nickel	ppm	ASTM D5185m	>4	1	0	0			
Titanium	ppm	ASTM D5185m		0	<1	0			
Silver	ppm	ASTM D5185m	>3	0	0	0			
Aluminum	ppm	ASTM D5185m	>20	10	8	7			
Lead	ppm	ASTM D5185m	>40	0	0	0			
Copper	ppm	ASTM D5185m	>330	0	<1	1			
Tin	ppm	ASTM D5185m	>15	<1	0	<1			
Vanadium	ppm	ASTM D5185m		0	0	0			
Cadmium	ppm	ASTM D5185m		0	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	0	10	12	9			
Barium	ppm	ASTM D5185m	0	0	0	0			
Molybdenum	ppm	ASTM D5185m	60	55	55	52			
Manganese	ppm	ASTM D5185m	0	<1	<1	<1			
Magnesium	ppm	ASTM D5185m	1010	813	880	775			
Calcium	ppm	ASTM D5185m	1070	1140	1317	1144			
Phosphorus	ppm	ASTM D5185m	1150	959	1015	935			
Zinc	ppm	ASTM D5185m	1270	1170	1229	1101			
Sulfur	ppm	ASTM D5185m	2060	3548	3532	3187			
CONTAMINANTS method limit/base current history1 history2									
Silicon	ppm	ASTM D5185m	>25	6	5	5			
Sodium	ppm	ASTM D5185m		20	10	4			
Potassium	ppm	ASTM D5185m	>20	13	8	6			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>3	0.4	0.4	0.3			
Nitration	Abs/cm	*ASTM D7624	>20	7.6	7.4	6.4			
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9	18.4	18.1			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	14.7	13.6			
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.6	7.5	7.7			
	, ,								

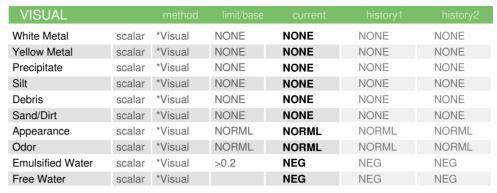


OIL ANALYSIS REPORT





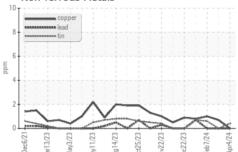


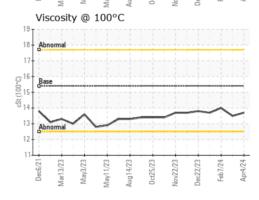


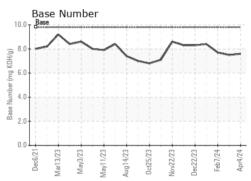
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.5	14.0

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0115393 Lab Number : 06145164

Unique Number : 10969972 Test Package : FLEET

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

Received : 10 Apr 2024 **Tested** : 11 Apr 2024 Diagnosed : 11 Apr 2024 - Wes Davis

GFL Environmental - 814 - Little Rock Hauling 4005 Hwy 161 N. Little Rock, AR US 72117

Contact: Brad Koenig bkoenig@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: GFL814 [WUSCAR] 06145164 (Generated: 04/11/2024 17:45:15) Rev: 1

Submitted By: Nicole Walls

T:

F: