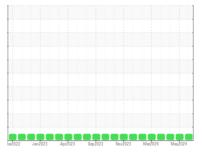


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 912068 Component

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.

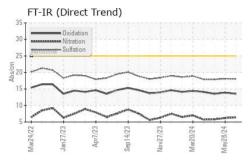
Fluid Condition

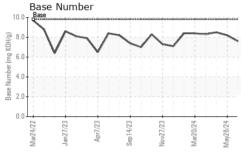
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

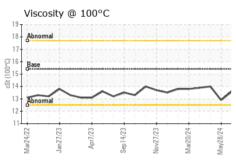
iAL)		lar2022 Ja	n2023 Apr2023 Se	p2023 Nov2023 Mar2024	May2024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0123015	GFL0123031	GFL0119412
Sample Date		Client Info		13 Jun 2024	28 May 2024	03 May 2024
Machine Age	hrs	Client Info		5643	5542	5378
Oil Age	hrs	Client Info		152	152	6308
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	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	11	11	10
Chromium	ppm	ASTM D5185m	>4	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	5	5	4
Lead	ppm	ASTM D5185m	>45	0	0	0
Copper	ppm	ASTM D5185m	>85	2	2	1
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	19	18	17
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	60	60	66	83
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	945	1007	1257
Calcium	ppm	ASTM D5185m	1070	1131	1194	1415
Phosphorus	ppm	ASTM D5185m	1150	1029	1099	1430
Zinc	ppm	ASTM D5185m	1270	1229	1228	1631
Sulfur	ppm	ASTM D5185m	2060	3552	3004	4383
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	12	13	9
Sodium	ppm	ASTM D5185m		6	5	5
Potassium	ppm	ASTM D5185m	>20	4	4	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.4	6.2	5.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.0	18.1	17.9
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.5	13.9	13.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.6	8.2	8.5

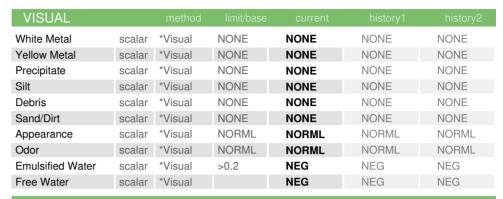


OIL ANALYSIS REPORT



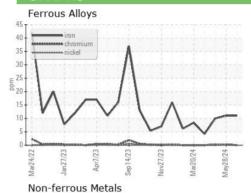


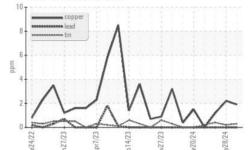


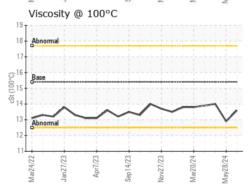


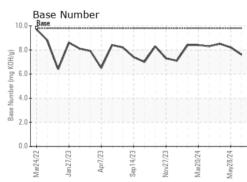
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	12.9	14.0	

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0123015 Lab Number : 06217619 Unique Number : 11090483

Test Package : FLEET

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

: 21 Jun 2024 **Tested** : 24 Jun 2024 Diagnosed : 24 Jun 2024 - Wes Davis

4005 Hwy 161 N. Little Rock, AR US 72117

GFL Environmental - 814 - Little Rock Hauling

Contact: Brad Koenig bkoenig@gflenv.com

To discuss this sample report, contact Customer Service at 1-800-237-1369. st - 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] 06217619 (Generated: 06/24/2024 22:04:12) Rev: 1

Submitted By: Nicole Walls

T:

F: