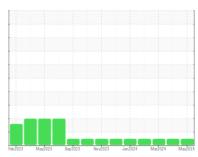


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
413027
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

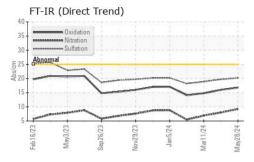
Fluid Condition

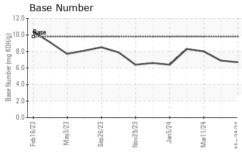
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

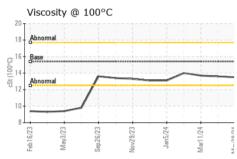
GAL)		Feb2023 0	Лау2023 Sep2023	Nov2023 Jan2024 Mar2024	May2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0123032	GFL0115395	GFL0115360
Sample Date		Client Info		28 May 2024	04 Apr 2024	11 Mar 2024
Machine Age	hrs	Client Info		1641	1468	1285
Oil Age	hrs	Client Info		173	183	150
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	18	12	10
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>4	7	6	4
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	6	5	3
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	80	70	53
Tin	ppm	ASTM D5185m	>15	2	1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	4	8
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	60	57	64
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	915	905	998
Calcium	ppm	ASTM D5185m	1070	1085	1074	1210
Phosphorus	ppm	ASTM D5185m	1150	1046	978	1117
Zinc	ppm	ASTM D5185m	1270	1202	1208	1310
Sulfur	ppm	ASTM D5185m	2060	2494	3159	3923
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	5	5
Sodium	ppm	ASTM D5185m		4	4	2
Potassium	ppm	ASTM D5185m	>20	17	13	8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.2	8.0	6.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	19.7	18.9
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	16.0	14.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.7	6.9	8.0

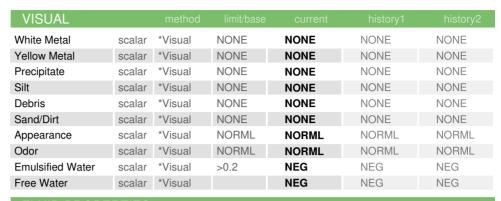


OIL ANALYSIS REPORT



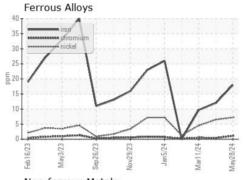


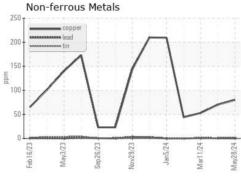


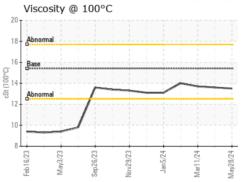


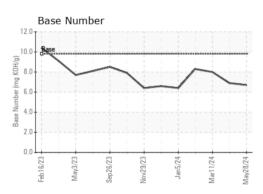
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	13.6	13.7

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0123032 Lab Number : 06212940

Unique Number : 11085804 Test Package : FLEET

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

Received : 17 Jun 2024 **Tested** : 19 Jun 2024

Diagnosed : 19 Jun 2024 - Wes Davis

Little Rock, AR US 72117 Contact: Brad Koenig

GFL Environmental - 814 - Little Rock Hauling

bkoenig@gflenv.com T:

4005 Hwy 161 N.

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] 06212940 (Generated: 06/22/2024 00:53:25) Rev: 1

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