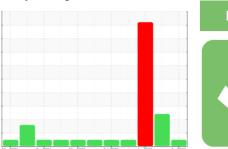


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 429053-402458

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

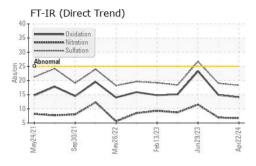
Fluid Condition

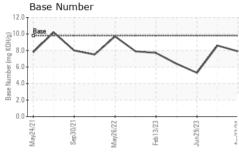
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

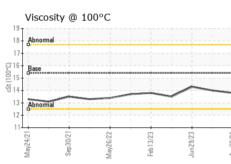
LTR)		May2021	Sep2021 May2022	Feb2023 Jun2023	Apr2024				
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0114631	GFL0092556	GFL0081521			
Sample Date		Client Info		22 Apr 2024	23 Oct 2023	29 Jun 2023			
Machine Age	hrs	Client Info		13884	12662	11867			
Oil Age	hrs	Client Info		600	600	600			
Oil Changed		Client Info		Changed	Changed	Not Changd			
Sample Status				NORMAL	ATTENTION	SEVERE			
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	▲ 0.20			
WEAR METAL	S	method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m	>110	4	2	21			
Chromium	ppm	ASTM D5185m	>4	0	<1	<1			
Nickel	ppm	ASTM D5185m	>2	0	<1	1			
Titanium	ppm	ASTM D5185m		0	<1	0			
Silver	ppm	ASTM D5185m	>2	0	0	0			
Aluminum	ppm	ASTM D5185m		<1	2	<1			
Lead	ppm	ASTM D5185m	>45	0	2	13			
Copper	ppm	ASTM D5185m		2	13	<u>113</u>			
Tin	ppm	ASTM D5185m	>4	<1	<1	1			
Vanadium	ppm	ASTM D5185m		0	0	0			
Cadmium	ppm	ASTM D5185m		0	<1	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	0	1	2	9			
Barium	ppm	ASTM D5185m		0	10	0			
Molybdenum	ppm	ASTM D5185m	60	55	71	307			
Manganese	ppm	ASTM D5185m		0	0	2			
Magnesium	ppm	ASTM D5185m	1010	867	868	673			
Calcium	ppm	ASTM D5185m	1070	1146	1110	1047			
Phosphorus Zinc	ppm	ASTM D5185m	1150 1270	1057 1246	919 1220	856 1060			
Sulfur	ppm	ASTM D5185m	2060	3415	3250	2888			
CONTAMINAN	TS	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>30	4	6	14			
Sodium	ppm	ASTM D5185m		6	5 5	<u> </u>			
Potassium	ppm	ASTM D5185m	>20	3	55	<u>▲</u> 1445			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.7			
Nitration	Abs/cm	*ASTM D7624	>20	6.7	6.9	11.5			
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	19.0	26.7			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	14.9	23.3			
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.9	8.6	5.3			

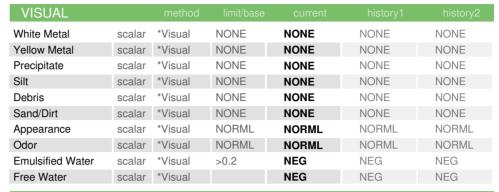


OIL ANALYSIS REPORT



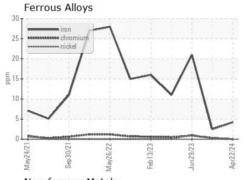


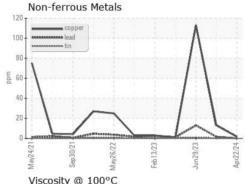


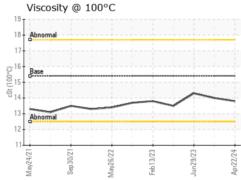


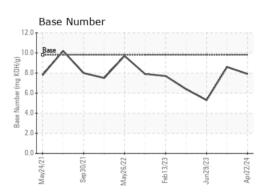
FLUID PROP	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	14.0	14.3

GRAPHS













Certificate 12367

Laboratory Sample No.

Lab Number : 06160165 Unique Number : 10995588 Test Package : FLEET

: GFL0114631

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 25 Apr 2024 **Tested** : 29 Apr 2024

Diagnosed : 29 Apr 2024 - Wes Davis

GFL Environmental - 885 - Orlando

1263 W Landstreet Rd Orlando, FL US 32824

Contact: Brian Bou Diaz bboudiaz@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: GFL885 [WUSCAR] 06160165 (Generated: 04/29/2024 14:52:25) Rev: 1

Submitted By: TIMOTHY MOURER

T:

F: