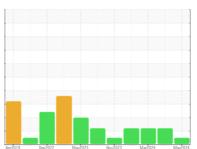


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 924033-260253

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

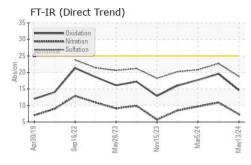
Fluid Condition

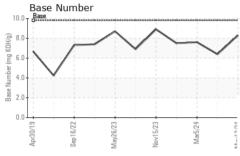
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

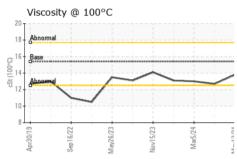
GAL)		Apr2019	Sep 2022 May 2023	Nov2023 Mar2024	May2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0118271	GFL0118175	GFL0109172
Sample Date		Client Info		13 May 2024	08 Apr 2024	05 Mar 2024
Machine Age	hrs	Client Info		802	610	470
Oil Age	hrs	Client Info		700	610	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ATTENTION	ATTENTION
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	12	44	41
Chromium	ppm	ASTM D5185m	>20	1	1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	1	0	0
Aluminum	ppm	ASTM D5185m	>20	2	5	4
Lead	ppm	ASTM D5185m	>40	<1	1	0
Copper	ppm	ASTM D5185m		1	0	2
Tin	ppm	ASTM D5185m	>15	<1	<1	0
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	1	6	10
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	60	59	60
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	915	880	860
Calcium	ppm	ASTM D5185m	1070	1035	1015	960
Phosphorus	ppm	ASTM D5185m	1150	945	1003	977
Zinc	ppm	ASTM D5185m	1270	1163	1220	1138
Sulfur	ppm	ASTM D5185m	2060	2890	3340	2872
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	5	5
Sodium	ppm	ASTM D5185m	. 20	17	96	98
Potassium	ppm	ASTM D5185m		3	6	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	% A b a /ave	*ASTM D7844	>3	0.4	1.1	0.9
Nitration	Abs/cm	*ASTM D7624	>20	7.3	10.9	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	22.7	20.8
FLUID DEGRAD		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.6	19.6	17.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.3	6.4	7.6

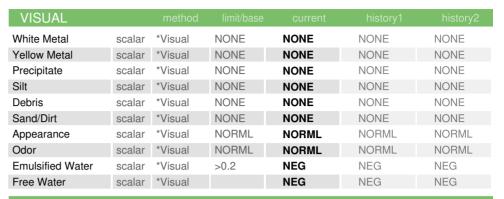


OIL ANALYSIS REPORT



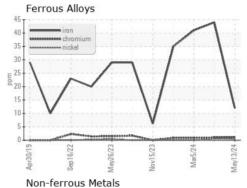


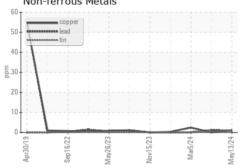


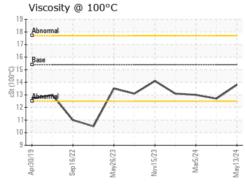


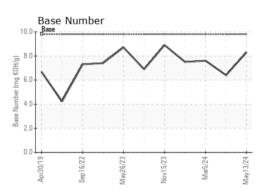
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	12.7	13.0

GRAPHS













Certificate 12367

Laboratory Sample No. Lab Number : 06191897 Unique Number : 11048649

: GFL0118271

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 May 2024 **Tested** : 29 May 2024

Diagnosed : 29 May 2024 - Wes Davis

GFL Environmental - 822 - Springfield Hauling

2120 West Bennett Street Springfield, MO US 65807

Contact: Dennis Moore dennis.moore@gflenv.com T: (417)403-3641

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: GFL822 [WUSCAR] 06191897 (Generated: 05/29/2024 10:35:29) Rev: 1