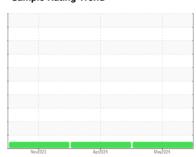


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 720070 Component

Diesel Engine

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

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

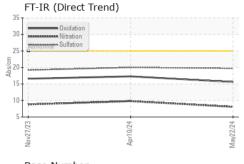
Fluid Condition

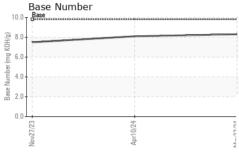
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

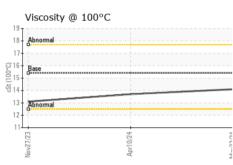
AL)		No	2023	Apr2024 May20	24	
SAMPLE INFORM	NOITAN	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0111208	GFL0111236	GFL0087955
Sample Date		Client Info		22 May 2024	10 Apr 2024	27 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	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 METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	11	20	9
Chromium	ppm	ASTM D5185m	>4	<1	1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	3	2
_ead	ppm	ASTM D5185m	>45	<1	<1	0
Copper	ppm	ASTM D5185m	>85	2	1	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	0	2
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	61	58	55
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	953	960	944
Calcium	ppm	ASTM D5185m	1070	1080	1095	1060
Phosphorus	ppm	ASTM D5185m	1150	1131	1003	1025
Zinc	ppm	ASTM D5185m	1270	1252	1204	1248
	ppm ppm	ASTM D5185m ASTM D5185m	1270 2060	1252 3341	1204 3448	1248 2983
	ppm					
Sulfur CONTAMINAN Silicon	ppm	ASTM D5185m	2060	3341	3448 history1	2983 history2
Sulfur CONTAMINAN [*] Silicon Sodium	ppm TS	ASTM D5185m method ASTM D5185m ASTM D5185m	2060 limit/base >30	3341 current	3448 history1	2983 history2
Sulfur CONTAMINAN Silicon Sodium	ppm TS ppm	ASTM D5185m method ASTM D5185m	2060 limit/base >30	3341 current 4	3448 history1	2983 history2
Sulfur CONTAMINAN Silicon Sodium	ppm TS ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m	2060 limit/base >30	3341 current 4 4	3448 history1 5 5	2983 history2 3 4 0 history2
Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm TS ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	2060 limit/base >30 >20 limit/base >3	3341	3448 history1 5 5 <1 history1 0.6	2983 history2 3 4 0 history2 0.4
Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm TS ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method	2060 limit/base >30 >20 limit/base >3	3341	3448 history1 5 5 <1 history1 0.6 9.8	2983 history2 3 4 0 history2 0.4 8.8
Silicon Sodium Potassium	ppm TS ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	2060 limit/base >30 >20 limit/base >3	3341	3448 history1 5 5 <1 history1 0.6	2983 history2 3 4 0 history2 0.4
Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm TS ppm ppm ppm ppm Abs/cm Abs/.1mm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	2060 limit/base >30	3341	3448 history1 5 5 <1 history1 0.6 9.8	2983 history2 3 4 0 history2 0.4 8.8
Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm TS ppm ppm ppm ppm Abs/cm Abs/.1mm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	2060 limit/base >30 >20 limit/base >3 >20 s3 >20 >30 >30	3341	3448 history1 5 5 <1 history1 0.6 9.8 20.0	2983 history2 3 4 0 history2 0.4 8.8 19.2

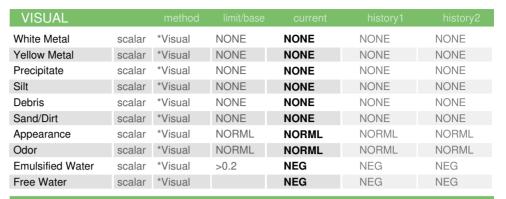


OIL ANALYSIS REPORT



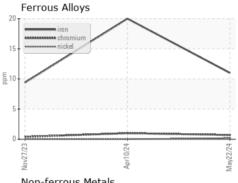




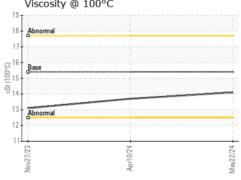


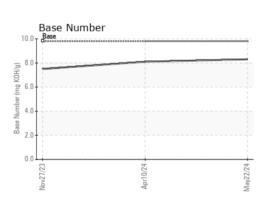
FLUID PROPE	:RHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	13.7	13.1

GRAPHS



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Nov27/23	Apri	5 C C
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Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06196341

: GFL0111208 Unique Number : 11058464

Received **Tested** Test Package : FLEET

: 03 Jun 2024 Diagnosed : 03 Jun 2024 - Wes Davis

: 31 May 2024

GFL Environmental - 960B - Pittsfield HC 1335 W. Washington Pittsfield, IL

> US 62363 Contact: David Bradshaw david.bradshaw@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)

T:

F: