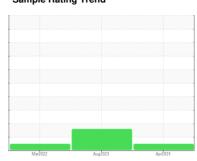


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 123011-752

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

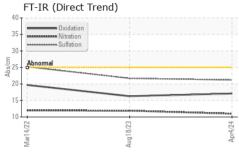
Fluid Condition

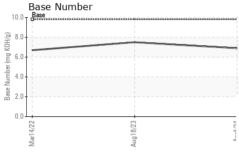
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

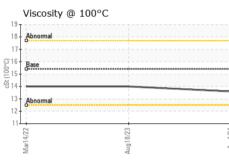
AL)		Ma	2022	Aug2023 Apr20	24	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0061033	GFL0030400	GFL0030385
Sample Date		Client Info		04 Apr 2024	18 Aug 2023	14 Mar 2022
Machine Age	hrs	Client Info		10281	9740	8239
Oil Age	hrs	Client Info		540	550	630
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	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
ron	ppm	ASTM D5185m	>100	18	15	23
Chromium	ppm	ASTM D5185m	>20	1	<1	1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		3	15	7
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	5	3
_ead	ppm	ASTM D5185m	>40	2	0	4
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	13	71	99
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	61	40	73
Manganese	ppm	ASTM D5185m	0	1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	921	848	702
Calcium	ppm	ASTM D5185m	1070	1264	1877	1715
Phosphorus	ppm	ASTM D5185m	1150	989	812	765
Zinc	ppm	ASTM D5185m	1270	1202	992	875
Sulfur	ppm	ASTM D5185m	2060	3301	4278	2574
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	16	▲ 31	7
Sodium	ppm	ASTM D5185m		<1	4	4
Potassium	ppm	ASTM D5185m	>20	2	3	3
Potassium INFRA-RED			>20 limit/base	2 current	3 history1	history2
INFRA-RED Soot %	ppm %	ASTM D5185m method *ASTM D7844	limit/base	current 0.8	3 history1 0.7	history2
INFRA-RED Soot % Nitration	ppm	ASTM D5185m method	limit/base	2 current	3 history1	history2
INFRA-RED Soot % Nitration	ppm %	ASTM D5185m method *ASTM D7844	limit/base	current 0.8	3 history1 0.7	history2
INFRA-RED Soot % Nitration	% Abs/cm Abs/.1mm	ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >3 >20	2 current 0.8 11.0	3 history1 0.7 11.9	history2 1.1 12.0
Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >3 >20 >30	2 current 0.8 11.0 21.2	3 history1 0.7 11.9 21.7	history2 1.1 12.0 25.2

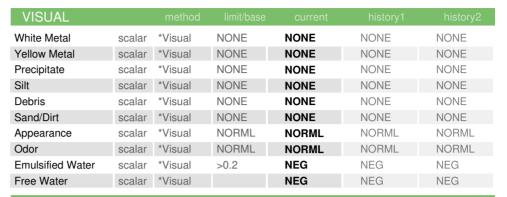


OIL ANALYSIS REPORT



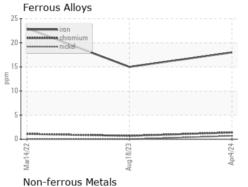


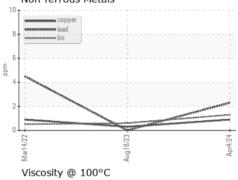


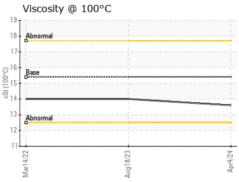


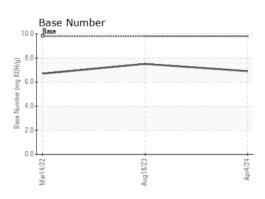
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	14.0	14.0

GRAPHS













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06144038 Unique Number : 10968846

: GFL0061033 Test Package : FLEET

Received **Tested** Diagnosed

: 10 Apr 2024 : 11 Apr 2024 : 11 Apr 2024 - Wes Davis

GFL Environmental - 633 - Grand Haven 1680 Peach St Whitehall, MI

> US 49461 Contact: Derek Kater dkater@gflenv.com T:

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)

F: