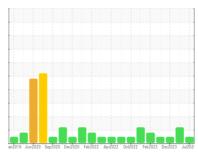


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id **427078-402332**

Component

Diesel Engine

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

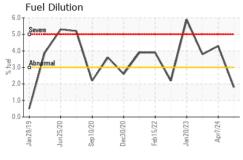
Fluid Condition

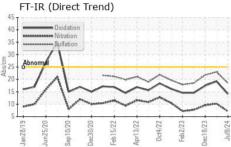
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

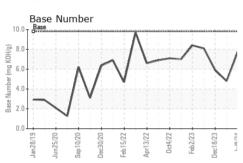
71 OH 1011-10 (<u> </u>					
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0102258	GFL0102248	GFL0102273
Sample Date		Client Info		09 Jul 2024	07 Apr 2024	18 Dec 2023
Machine Age	hrs	Client Info		0	0	18732
Oil Age	hrs	Client Info		0	600	600
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
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	>120	6	17	6
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	3	2
Lead	ppm	ASTM D5185m	>40	0	2	1
Copper	ppm	ASTM D5185m	>330	<1	1	<1
Tin	ppm	ASTM D5185m	>15	<1	1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	0	1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	57	59	56
Manganese	ppm	ASTM D5185m	0	0	0	<1
Magnesium	ppm	ASTM D5185m	1010	929	1006	901
Calcium	ppm	ASTM D5185m	1070	1039	1090	985
Phosphorus	ppm	ASTM D5185m	1150	1052	1005	928
Zinc	ppm	ASTM D5185m	1270	1248	1273	1189
Sulfur	ppm	ASTM D5185m	2060	3510	3016	2436
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	3
Sodium	ppm	ASTM D5185m		7	6	14
Potassium	ppm	ASTM D5185m	>20	3	0	<1
Fuel	%	ASTM D3524	>3.0	1.8	▲ 4.3	<1.0
INFRA-RED		method	limit/base	current	history1	history2
	0/	*ASTM D7844	>4	0.3	0.8	0.4
Soot %	%	AO I WI D I OTT		0.0		
Soot % Nitration	% Abs/cm	*ASTM D7624	>20	7.1	10.2	9.6
			>20 >30			9.6 21.8
Nitration	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415		7.1	10.2	
Nitration Sulfation FLUID DEGRAI	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415 method	>30 limit/base	7.1 18.5 current	10.2 23.0 history1	21.8 history2
Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>30	7.1 18.5	10.2 23.0	21.8

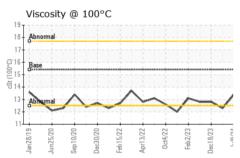


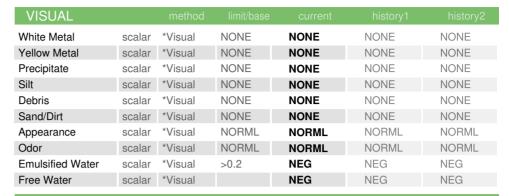
OIL ANALYSIS REPORT





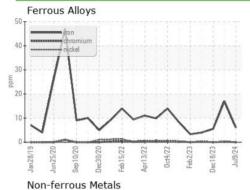


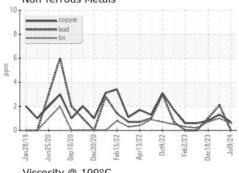


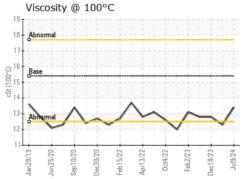


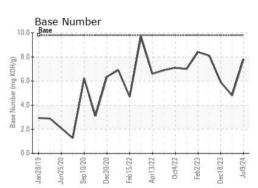
FLUID PROPI	ERHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	12.3	12.8

GRAPHS













Certificate 12367

Laboratory Sample No.

Lab Number : 06231927

Unique Number : 11115420

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0102258

Received : 10 Jul 2024 **Tested**

: 12 Jul 2024 Diagnosed Test Package : FLEET (Additional Tests: PercentFuel)

: 12 Jul 2024 - Wes Davis

Bay City, TX US 77414 Contact: JONATHON BROWN jonathon.brown@gflenv.com T:

GFL Environmental - 859 - Bay City

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)

700 Avenue F

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