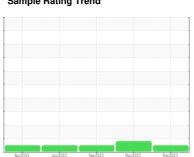


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id **4673M** 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

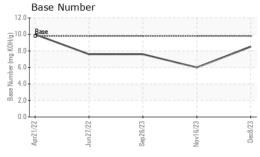
Fluid Condition

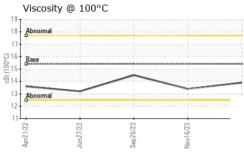
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Apr2022	Jun2022	Sep2023 Nov2023	Dec2023	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0104221	GFL0059282	GFL0084990
Sample Date		Client Info		08 Dec 2023	16 Nov 2023	26 Sep 2023
Machine Age	hrs	Client Info		16592	16412	15988
Oil Age	hrs	Client Info		180	16412	15988
Oil Changed		Client Info		N/A	Changed	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	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	>80	10	28	39
Chromium	ppm	ASTM D5185m	>5	0	1	2
Nickel	ppm	ASTM D5185m	>2	0	<u>^</u> 7	1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>30	1	2	6
Lead	ppm	ASTM D5185m	>30	0	<1	1
Copper	ppm	ASTM D5185m	>150	0	14	1
Tin	ppm	ASTM D5185m	>5	0	2	1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	1	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	53	63	60
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1000	1042	927
Calcium	ppm	ASTM D5185m	1070	1058	1183	1056
Phosphorus	ppm	ASTM D5185m	1150	1058	1017	1024
Zinc	ppm	ASTM D5185m	1270	1254	1310	1268
Sulfur	ppm	ASTM D5185m	2060	3091	2379	2939
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	2	8	12
Sodium	ppm	ASTM D5185m		0	5	29
Potassium	ppm	ASTM D5185m	>20	<1	0	15
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.9	1.7
Nitration	Abs/cm	*ASTM D7624	>20	6.6	9.1	13.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	22.1	24.3
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	18.5	21.3
Base Number (BN)	mg KOH/g	ASTM D2896		8.5	6.0	7.6
Dago Harriber (DIA)	my Northy	7.0 TW DE000	0.0	0.0	0.0	7.0



OIL ANALYSIS REPORT

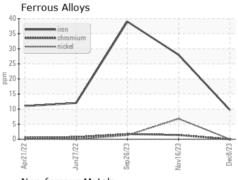


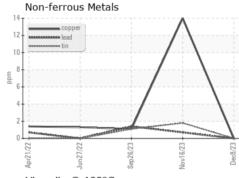


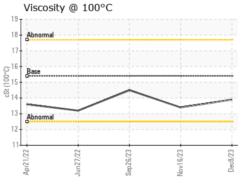
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

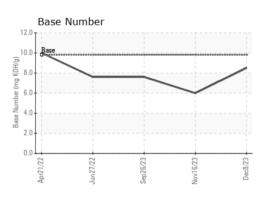
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.4	14.5

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number Test Package : FLEET

: 06033127

: GFL0104221 : 10782918

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 Dec 2023

Diagnosed : 14 Dec 2023 Diagnostician : Wes Davis

GFL Environmental - 410 - Michigan West

39000 Van Born Rd Wayne, MI US 48184

Contact: Belal Dgheish bdgheish@gflenv.com T: (734)714-2340

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)