

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
775M
Component
Diesel Engine
Fluid

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

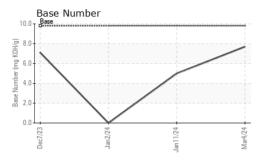
Fluid Condition

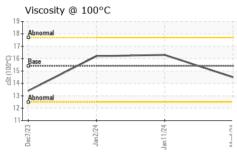
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

,	GAL)	Dec20Z	3 Jan2024	Jan 2024 M	ar2024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0104290	GFL0110019	GFL0104190
Sample Date		Client Info		04 Mar 2024	11 Jan 2024	02 Jan 2024
Machine Age	hrs	Client Info		7671	7409	7356
Oil Age	hrs	Client Info		600	7295	114
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	MARGINAL	ABNORMAL
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<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	>90	23	70	46
Chromium	ppm	ASTM D5185m	>20	<1	2	1
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	6	5
Lead	ppm	ASTM D5185m	>40	0	4	2
Copper	ppm	ASTM D5185m	>330	<1	2	2
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	4	<1
Barium	ppm	ASTM D5185m	0	0	0	7
Molybdenum	ppm	ASTM D5185m	60	59	63	43
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1028	990	699
Calcium	ppm	ASTM D5185m	1070	1101	1087	832
Phosphorus	ppm	ASTM D5185m	1150	1093	1131	583
Zinc	ppm	ASTM D5185m	1270	1283	1354	996
Sulfur	ppm	ASTM D5185m	2060	3065	2702	1748
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	10	6
Sodium	ppm	ASTM D5185m		6	7	9
Potassium	ppm	ASTM D5185m	>20	0	3	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	1.1	△ 3.9	△ 3.6
Nitration	Abs/cm	*ASTM D7624	>20	10.6	17.2	15.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.2	34.9	32.8
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.2	30.1	27.4



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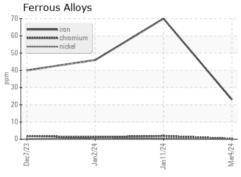


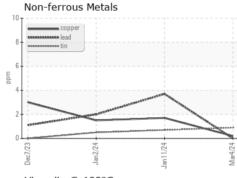


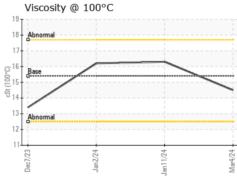
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

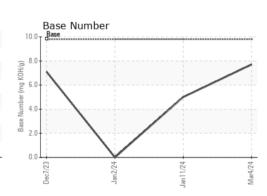
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.5	16.3	16.2

GRAPHS













Laboratory Sample No.

: GFL0104290 Lab Number : 06109836 Unique Number: 10913333 Test Package : FLEET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06 Mar 2024 **Tested**

: 07 Mar 2024 Diagnosed : 07 Mar 2024 - 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

* - 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)

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Submitted By: seel also GFL468 - Laura Wilson