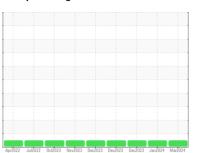


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id 358M Component Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (36 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

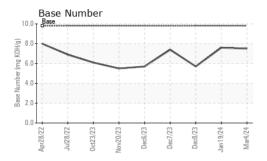
Fluid Condition

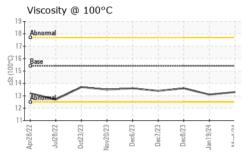
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFO	RMATION	method	limit/base	Dec2023 Dec2023 Dec2023 Jan20 Current	history1	history2
Sample Number		Client Info		GFL0104284	GFL0109981	GFL0104356
Sample Date		Client Info		04 Mar 2024	19 Jan 2024	08 Dec 2023
Machine Age	hrs	Client Info		20958	20804	20477
Oil Age	hrs	Client Info		600	600	20419
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status		0		NORMAL	NORMAL	NORMAL
CONTAMINA	TION	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 META	ALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	11	11	71
Chromium	ppm	ASTM D5185m	>20	0	0	2
Nickel	ppm	ASTM D5185m	>5	0	0	2
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	4	4
Lead	ppm	ASTM D5185m	>40	0	<1	1
Copper	ppm		>330	0	1	8
Tin	ppm	ASTM D5185m	>15	0	0	0
Vanadium		ASTM D5185m	>10	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	1- 1-	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	2	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	60	53	53	56
Manganese	ppm	ASTM D5185m		0	<1	2
Magnesium	ppm	ASTM D5185m	1010	874	867	1011
Calcium	ppm	ASTM D5185m	1070	953	1047	1076
Phosphorus		ASTM D5185m	1150	958	819	1000
Zinc	ppm	ASTM D5185m	1270	1143	1072	1242
Sulfur	ppm	ASTM D5185m	2060	2561	2560	2303
CONTAMINA		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		7	7	5
Sodium	ppm	ASTM D5185m		9	10	4
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
INFRA-RED	1- 1-	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.4	0.3	1
JJUL /0		*ASTM D7624	>4	8.2	7.5	10.0
Mitration	Ahc/om		2011		1.0	10.0
Nitration Sulfation	Abs/cm Abs/.1mm					
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	19.1	22.5
Sulfation FLUID DEGR.	Abs/.1mm	*ASTM D7415 method	>30 limit/base	19.3 current	19.1 history1	22.5 history2
Sulfation	Abs/.1mm ADATION Abs/.1mm	*ASTM D7415	>30 limit/base >25	19.3	19.1	22.5



OIL ANALYSIS REPORT



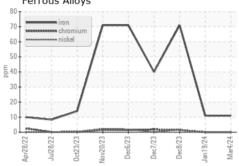


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

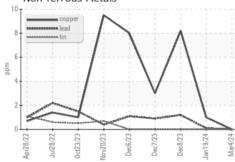
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	13.1	13.6

GRAPHS

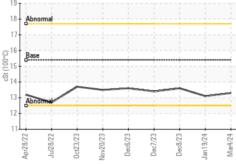
Ferrous Alloys

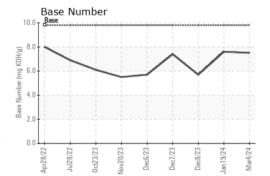
















Laboratory Sample No.

Lab Number : 06109919 Unique Number : 10913416 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0104284 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

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)

Report Id: GFL410 [WUSCAR] 06109919 (Generated: 03/07/2024 09:37:25) Rev: 1