

OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id
653M
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

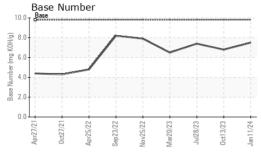
Fluid Condition

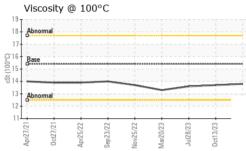
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

					23 Jan 2024		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0107690	GFL0096582	GFL0082732	
Sample Date		Client Info		11 Jan 2024	13 Oct 2023	28 Jul 2023	
Machine Age	hrs	Client Info		10437	9849	9247	
Oil Age	hrs	Client Info		600	600	600	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	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	>120	12	10	8	
Chromium	ppm	ASTM D5185m	>20	<1	<1	0	
Nickel	ppm	ASTM D5185m	>5	<1	<1	0	
Titanium	ppm	ASTM D5185m	>2	0	<1	<1	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	3	2	
Lead	ppm	ASTM D5185m	>40	0	<1	0	
Copper	ppm	ASTM D5185m	>330	1	3	1	
Tin	ppm	ASTM D5185m	>15	<1	<1	0	
Vanadium	ppm	ASTM D5185m		<1	<1	<1	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	<1	2	<1	
Barium	ppm	ASTM D5185m	0	0	<1	0	
Molybdenum	ppm	ASTM D5185m	60	60	62	57	
Manganese	ppm	ASTM D5185m	0	<1	0	<1	
Magnesium	ppm	ASTM D5185m	1010	1019	930	945	
Calcium	ppm	ASTM D5185m	1070	1062	1096	1063	
Phosphorus	ppm	ASTM D5185m	1150	1058	935	922	
Zinc	ppm	ASTM D5185m	1270	1294	1263	1193	
Sulfur	ppm	ASTM D5185m	2060	2951	2758	2853	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	6	3	2	
Sodium	ppm	ASTM D5185m		7	9	5	
Potassium	ppm	ASTM D5185m	>20	<1	2	0	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	0.5	0.7	0.6	
Nitration	Abs/cm	*ASTM D7624	>20	7.5	8.6	8.2	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	20.8	19.9	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.0	17.0	16.0	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.5	6.8	7.4	
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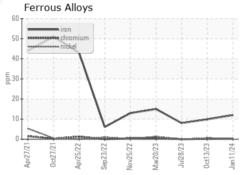


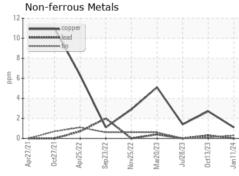


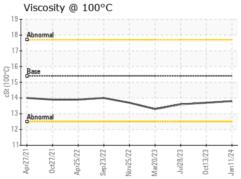
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

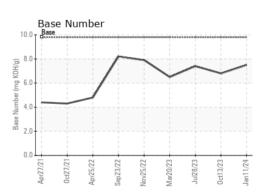
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.7	13.6	

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

Unique Number

: GFL0107690 : 06064850 : 10836232

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 18 Jan 2024 Diagnosed

: 19 Jan 2024 Diagnostician : Wes Davis

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)

GFL Environmental - 465 - Pontiac

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