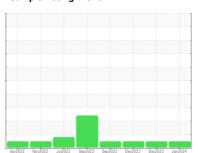


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 1103M 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

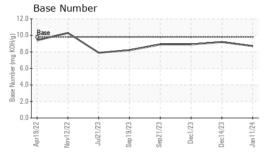
Fluid Condition

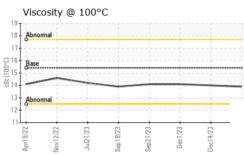
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

N SHP 15W40 (3	o GAL)	Apr2022	lov2022 Jul2023 Sep 207	3 Sep2023 Dec2023 Dec2023	Jan 2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0104255	GFL0104148	GFL0104388
Sample Date		Client Info		11 Jan 2024	14 Dec 2023	01 Dec 2023
Machine Age	hrs	Client Info		15804	15644	15500
Oil Age	hrs	Client Info		15804	8080	15500
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
⁼ uel		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
ron	ppm	ASTM D5185m	>65	4	0	5
Chromium	ppm	ASTM D5185m	>5	0	0	<1
Nickel	ppm	ASTM D5185m	>3	0	<1	<1
Γitanium	ppm	ASTM D5185m	>5	0	0	18
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>35	2	<1	2
_ead	ppm	ASTM D5185m	>10	<1	0	<1
Copper	ppm	ASTM D5185m	>180	0	<1	2
Γin	ppm	ASTM D5185m	>8	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	5	167
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	56	54	50
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	914	877	945
Calcium	ppm	ASTM D5185m	1070	949	982	1915
Phosphorus	ppm	ASTM D5185m	1150	1061	987	959
Zinc	ppm	ASTM D5185m	1270	1229	1218	1082
Sulfur	ppm	ASTM D5185m	2060	3048	3106	4801
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	3	2	13
Sodium	ppm	ASTM D5185m		<1	1	2
Potassium	ppm	ASTM D5185m	>20	1	2	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	5.7	4.7	5.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4	17.3	17.9
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	A1 / /	*A OTM D7444	0.5		40.4	40.7
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	13.4	13.7



OIL ANALYSIS REPORT

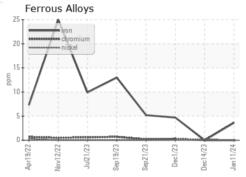


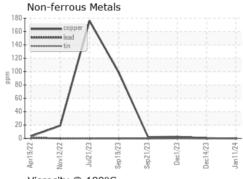


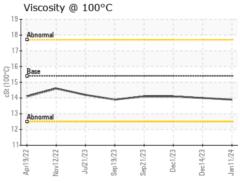
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

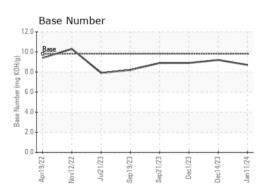
FLUID PROPI	=RIIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	14.0	14.1

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0104255 : 06060749 : 10832131

Recieved Diagnosed

: 16 Jan 2024 : 17 Jan 2024 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)