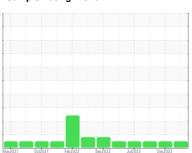


OIL ANALYSIS REPORT

Sample Rating Trend







Machine 463 Compon Diese Fluid PETR

Machine Id
4635M
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

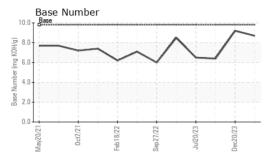
Fluid Condition

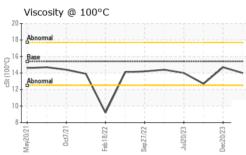
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		May2021	Uct2UZ1 Feb2022	Sep2022 Jul2023 De	ic2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0108819	GFL0105696	GFL0101410
Sample Date		Client Info		24 Jan 2024	20 Dec 2023	04 Dec 2023
Machine Age	hrs	Client Info		20880	20547	20425
Oil Age	hrs	Client Info		20547	20425	19377
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	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	70. L	NEG	NEG	NEG
WEAR METALS	3	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	13	0	30
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	<1	4
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	<1	<1	2
Tin	ppm	ASTM D5185m	>15	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	4	0
Barium	ppm	ASTM D5185m	0	0	<1	2
Molybdenum	ppm	ASTM D5185m	60	61	59	61
Manganese	ppm	ASTM D5185m	0	0	<1	0
Magnesium	ppm	ASTM D5185m	1010	1003	936	900
Calcium	ppm	ASTM D5185m	1070	1083	1023	1080
Phosphorus	ppm	ASTM D5185m	1150	1141	1110	935
Zinc	ppm	ASTM D5185m	1270	1311	1275	1186
Sulfur	ppm	ASTM D5185m	2060	3101	3218	3158
CONTAMINAN ⁻	• •	method	limit/base	current	history1	history2
Silicon	ppm		>25	5	5	4
Sodium	ppm	ASTM D5185m	720	6	2	3
Potassium	ppm	ASTM D5185m	>20	0	0	8
INFRA-RED	ррпп	method	limit/base			
	0/			current	history1	history2
Soot %	%	*ASTM D7844	>6	0.1	0	0.7
Nitration	Abs/cm	*ASTM D7624	>20	6.2	4.2	12.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4	17.2	22.5
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.3	12.8	20.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.7	9.2	6.4



OIL ANALYSIS REPORT

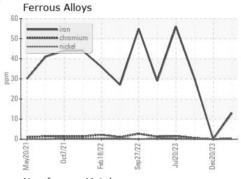


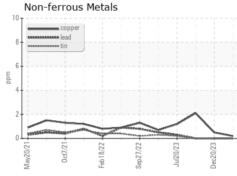


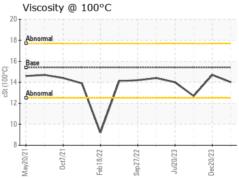
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

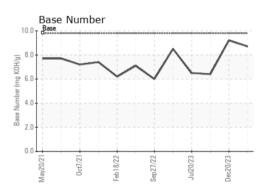
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	14.7	12.7

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0108819 : 06072480 : 10849157

Recieved : 29 Jan 2024 Diagnosed : 30 Jan 2024 Diagnostician : Wes Davis

GFL Environmental - 415 - Michigan East

6200 Elmridge Sterling Heights, MI US 48313 Contact: Frank Wolak

fwolak@gflenv.com T: (586)825-9514

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)