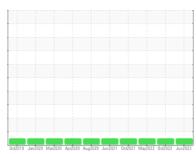


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 11297 isuzu 4hkitc

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (16 QTS)

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.

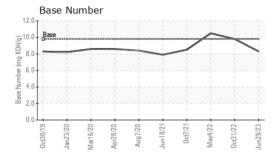
Fluid Condition

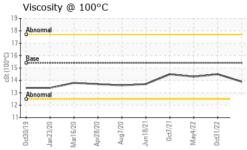
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

"Oct2019							
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2	
Sample Number		Client Info		GFL0087116	GFL0056514	GFL0048574	
Sample Date		Client Info		29 Jun 2023	31 Oct 2022	04 May 2022	
Machine Age	mls	Client Info		215545	187820	175552	
Oil Age	mls	Client Info		27725	12268	6351	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATI	ON	method	limit/base	current	history 1	history 2	
Fuel		WC Method	>5	<1.0	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METALS	S	method	limit/base	current	history 1	history 2	
Iron	ppm	ASTM D5185m	>100	13	17	13	
Chromium	ppm	ASTM D5185m	>20	0	<1	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	0	
Titanium	ppm	ASTM D5185m		0	0	<1	
Silver	ppm	ASTM D5185m	>3	0	0	<1	
Aluminum	ppm	ASTM D5185m	>20	2	<1	3	
Lead	ppm	ASTM D5185m	>40	<1	1	<1	
Copper	ppm	ASTM D5185m	>330	1	<1	1	
Tin	ppm	ASTM D5185m	>15	<1	<1	1	
Antimony	ppm	ASTM D5185m					
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history 1	history 2	
Boron	ppm	ASTM D5185m	0	2	5	7	
Barium	ppm	ASTM D5185m	0	2	0	0	
Molybdenum	ppm	ASTM D5185m	60	66	62	63	
Manganese	ppm	ASTM D5185m	0	<1	1	<1	
Magnesium	ppm	ASTM D5185m	1010	834	918	928	
Calcium	ppm	ASTM D5185m	1070	1155	1438	1480	
Phosphorus	ppm	ASTM D5185m	1150	1033	1086	1145	
Zinc	ppm	ASTM D5185m	1270	1178	1408	1330	
Sulfur	ppm	ASTM D5185m	2060	2953	3792	3000	
CONTAMINAN	TS	method	limit/base	current	history 1	history 2	
Silicon	ppm	ASTM D5185m	>25	3	3	3	
Sodium	ppm	ASTM D5185m		0	59	61	
Potassium	ppm	ASTM D5185m	>20	3	3	<1	
INFRA-RED		method	limit/base	current	history 1	history 2	
Soot %	%	*ASTM D7844	>3	1.2	1.1	0.7	
Nitration	Abs/cm	*ASTM D7624	>20	10.8	12.8	10.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	25.0	22.8	
FLUID DEGRAD	ATION	method	limit/base	current	history 1	history 2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.2	22.6	20.2	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.3	9.8	10.5	
(2.3)	39						



OIL ANALYSIS REPORT

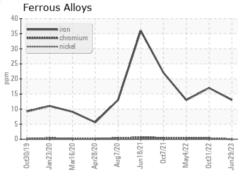


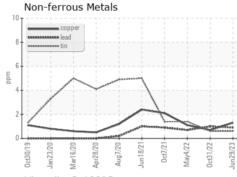


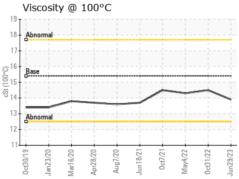
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

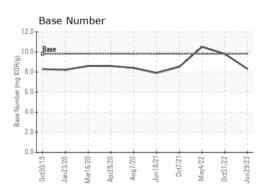
FLUID PROPE	RTIES	method			history 1	history 2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	14.5	14.3

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10539247 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0087116 : 05888764

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

Received : 03 Jul 2023 Diagnosed : 05 Jul 2023 Diagnostician : Wes Davis

GFL Environmental - 001 - Raleigh(CNG) 3741 Conquest Drive Garner, NC

US 27529 Contact: Craig Johnson craig.johnson@gflenv.com T: (919)662-7100

* - 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)

F: (919)662-7130