OIL ANALYSIS REPORT

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Machine Id

ELGIN ELGIN PELICAN

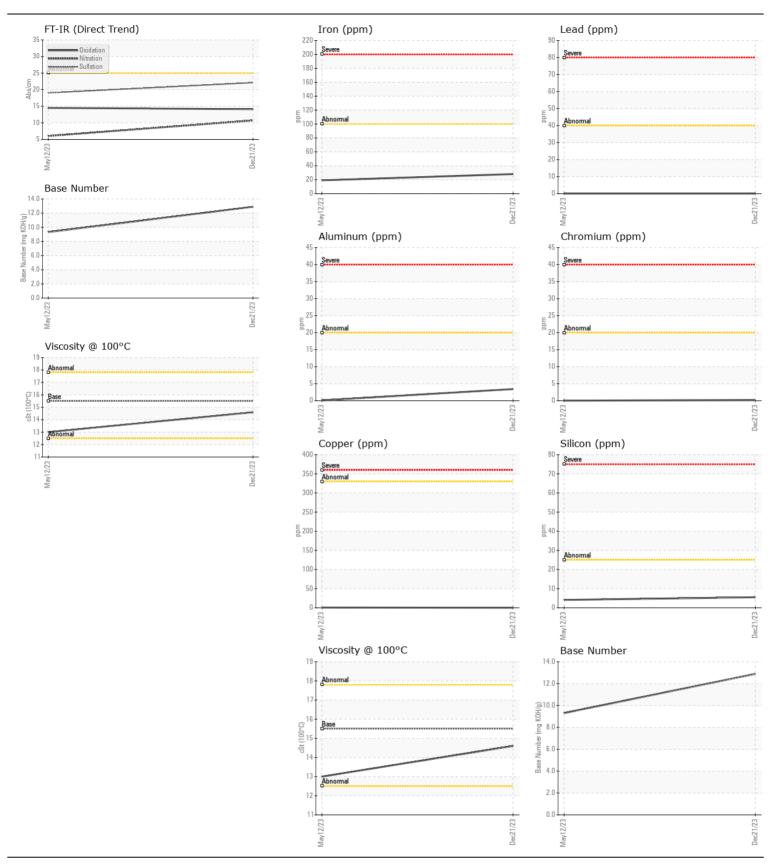
Component

Rear Diesel Engine

TRC PRO-SPEC IV XP SYN BLEND 15W40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR06045113	TR05848813	
	Sample Date		Client Info		21 Dec 2023	12 May 2023	
	Machine Age	hrs	Client Info		1781	1259	
	Oil Age	hrs	Client Info		481	0	
	Filter Age	hrs	Client Info		481	0	
	Oil Changed		Client Info		Not Changd	N/A	
	Filter Changed		Client Info		Not Changd	N/A	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>100	28	19	
WEAR	Chromium	ppm	ASTM D5185m		<1	0	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m	77	0	0	
	Silver		ASTM D5185m	^3	0	0	
	Aluminum	ppm	ASTM D5185m		3	<1	
	Lead		ASTM D5185m		0	0	
	Copper	ppm	ASTM D5185m		0	<1	
	Tin	ppm	ASTM D5185m		<1	<1	
	Vanadium	ppm	ASTM D5185m	>10	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
<u></u>		Scalai	VISUAI	INOINE	INOINE	INOINE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	4	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	0	<1	
	Fuel		WC Method	>5	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.4	0.2	
	Nitration	Abs/cm	*ASTM D7624	>20	10.7	6.0	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	19.0	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	<1	
EGID GONDITION	Boron	ppm	ASTM D5185m		3	0	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		132	59	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		50	374	
	Calcium	ppm	ASTM D5185m		4115	1751	
	Phosphorus	ppm	ASTM D5185m		948	965	
	Zinc	ppm	ASTM D5185m		1095	1204	
	Sulfur	ppm	ASTM D5185m		4196	3464	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	14.5	
			ASTM D2896	<i>></i> _J	12.89	9.31	
	Base Number (BN)	mg KOH/g	7 2 1 1 1 1 1 2 X U L				

Contact/Location: DON PERCY - GBDMIL





Certificate L2367

Laboratory Sample No.

Lab Number : 06045113 Unique Number : 10805721

: TR06045113 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 26 Dec 2023 **Tested** : 27 Dec 2023

Diagnosed : 27 Dec 2023 - Wes Davis **GBD ENTERPRISE LLC**

7 ROOKERY RD MILTON, NH US 03851

Contact: DON PERCY

To discuss this sample report, contact Customer Service at 1-800-827-0711.

* - 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)

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