

**WEAR** CONTAMINATION **FLUID CONDITION** 

**ABNORMAL SEVERE ABNORMAL** 

Machine Id **FCH 19** 

Component Diesel Engine							
MOBIL DELVAC 1300 SUPER 10W30 ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		TLY0002234	TLY0001337	TLY000122
	Sample Date		Client Info		12 Apr 2024	03 Feb 2023	13 Oct 202
	Machine Age	mls	Client Info		446938	409113	398297
	Oil Age	mls	Client Info		409113	10816	16061
	Filter Age	mls	Client Info		409113	10816	16061
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				SEVERE	NORMAL	NORMA
WEAR	Iron	ppm	ASTM D5185m	>100	35	6	7
	Chromium	ppm	ASTM D5185m	>20	1	<1	<1
The aluminum level is abnormal.	Nickel	ppm	ASTM D5185m		3	<1	4
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	<1	0	<1
	Aluminum	ppm	ASTM D5185m		<u>^</u> 29	1	2
	Lead	ppm	ASTM D5185m		6	1	4
	Copper	ppm	ASTM D5185m		9	<1	1
	Tin	ppm	ASTM D5185m		1	<1	1
	Vanadium	ppm	ASTM D5185m	7.0	<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NON
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONI
<u> </u>			Visuai			INOINE	14014
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	15	3	3
	Potassium	ppm	ASTM D5185m	>20	<b>4</b> 543	2	6
Sodium and/or potassium levels are high. Test for glycol is positive.  There is a high concentration of glycol present in the oil.	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	%	*ASTM D2982		▲ 0.12	NEG	NEG
	Soot %	%	*ASTM D7844	>3	1	0.4	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	17.2	9.0	6.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	25.7	19.9	23.8
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
FILLID CONDITION							
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<u> </u>	4	7
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m		11	20	19
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		224	53	46
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		456	704	634
	Calcium	ppm	ASTM D5185m		1560	1384	1419
	Phosphorus	ppm	ASTM D5185m		720	832	799
	Zinc	ppm	ASTM D5185m		920	1062	1008
	Sulfur	ppm	ASTM D5185m		2764	3215	3157
	Oxidation	Abs/.1mm			24.8	17.6	17.0
	Base Number (BN)	mg KOH/g	ASTM D2896	10.5	12.9	8.8	10.4
	Via- @ 10000	-0+	ACTAI DA45	110	100	100	100

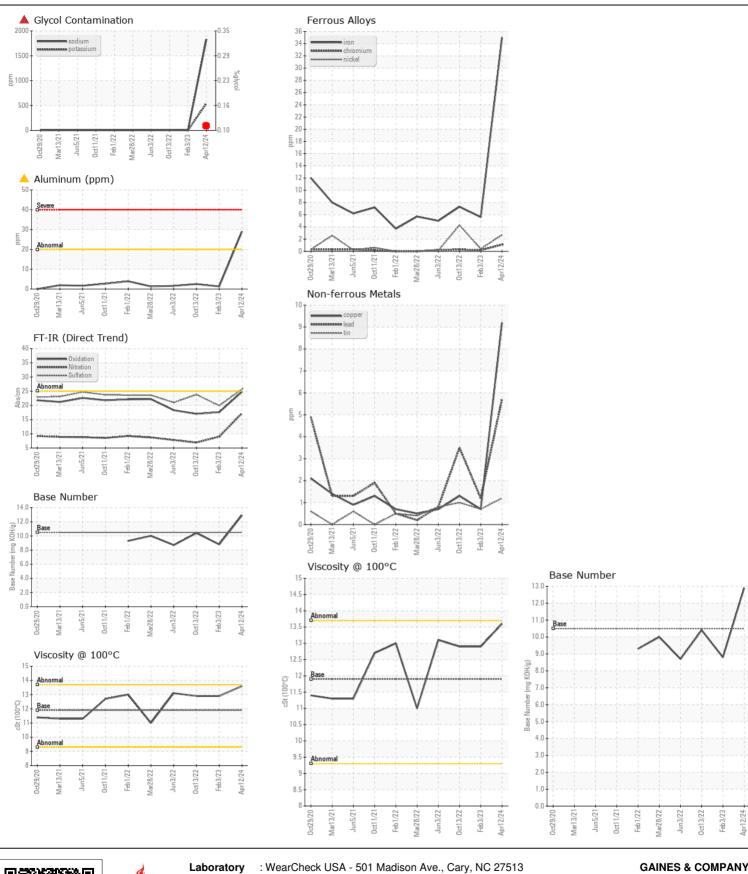
Visc @ 100°C cSt

ASTM D445 11.9

12.9

13.6

12.9







Report Id: GAIREIMAR [WUSCAR] 06154006 (Generated: 04/23/2024 11:17:27) Rev: 1

Sample No.

: TLY0002234 Lab Number : 06154006

Unique Number : 10989429

Received Tested Diagnosed Test Package : CONST ( Additional Tests: Glycol, TBN )

: 23 Apr 2024

: 23 Apr 2024 - Don Baldridge To discuss this sample report, contact Customer Service at 1-800-237-1369.

: 19 Apr 2024

US 21136 Contact: LANCE TANCRAITOR Itancraitor@gainesandco.com T: (410)833-9833

112 WESTMINISTER RD

REISTERSTOWN, MD

\* - 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)

Submitted By: BRANDY BADING

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