



WEAR

NORMAL

CONTAMINATION

MARGINAL

FLUID CONDITION

ATTENTION

# OIL ANALYSIS REPORT

Area

(00000)

Machine Id

HINO 846-4633

Component

Diesel Engine

Fluid

MOBIL DELVAC 1300 SUPER15W40 (18 QTS)

## RECOMMENDATION

No corrective action is recommended at this time. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0017582	RPL0015831	RPL0013478
Sample Date		Client Info		26 Jan 2024	28 Oct 2023	15 Jul 2023
Machine Age	mls	Client Info		37344	34696	32033
Oil Age	mls	Client Info		7879	2663	2568
Filter Age	mls	Client Info		7879	2663	2568
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ATTENTION	ABNORMAL	NORMAL

## WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	22	20	10
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	3	3	3
Lead	ppm	ASTM D5185m	>40	5	4	0
Copper	ppm	ASTM D5185m	>330	13	12	9
Tin	ppm	ASTM D5185m	>15	1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

## CONTAMINATION

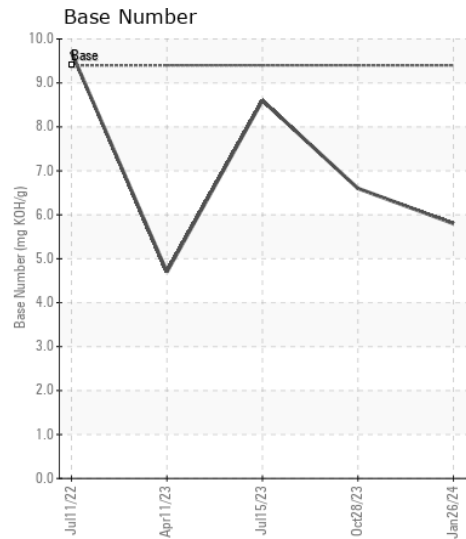
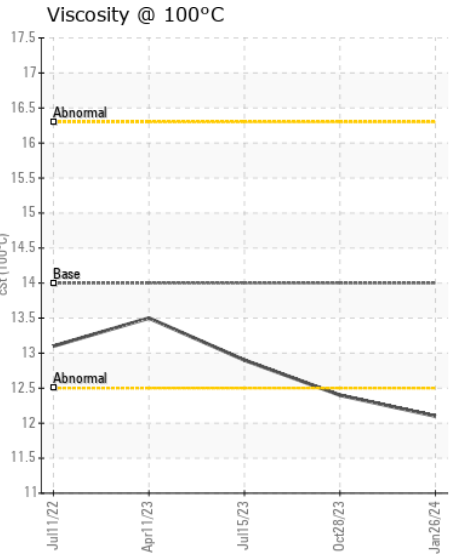
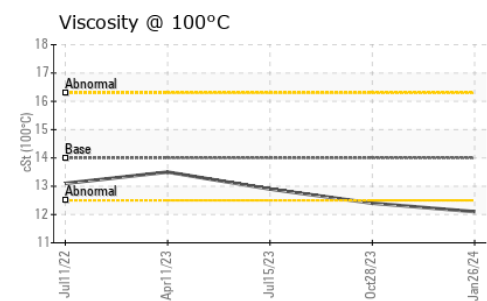
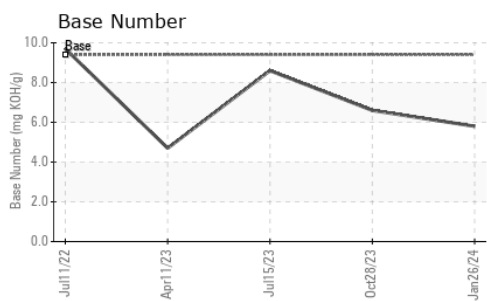
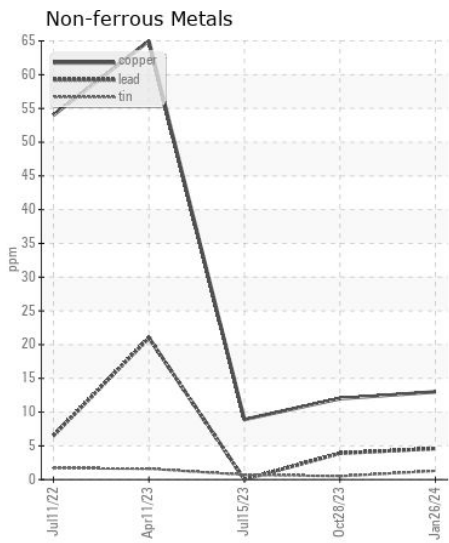
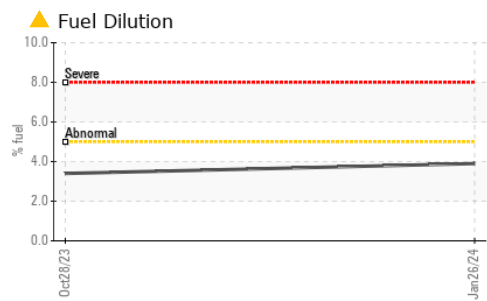
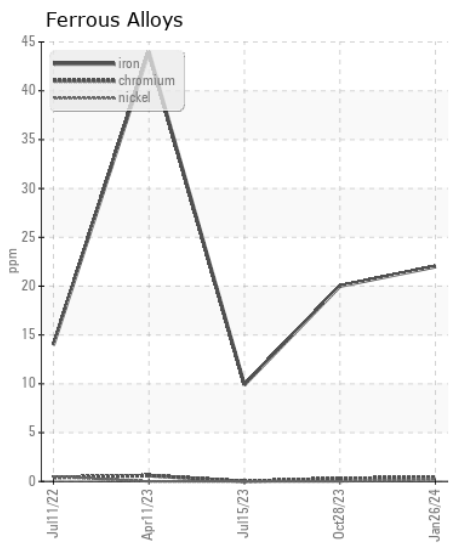
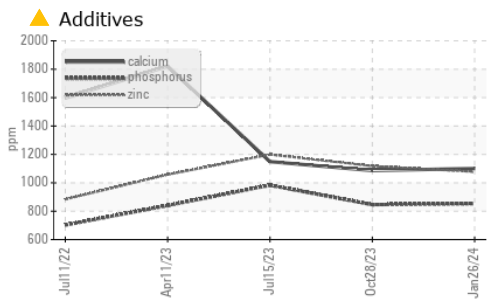
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185m	>25	4	4	3
Potassium	ppm	ASTM D5185m	>20	4	3	2
Fuel	%	ASTM D3524	>5	▲ 3.9	▲ 3.4	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.6	0.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	11.0	10.5	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.3	22.4	18.7
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

## FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		0	1	2
Boron	ppm	ASTM D5185m	0	2	0	<1
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	0	56	57	58
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	▲ 839	869	932
Calcium	ppm	ASTM D5185m		▲ 1101	1086	1149
Phosphorus	ppm	ASTM D5185m		853	846	983
Zinc	ppm	ASTM D5185m		1077	1118	1199
Sulfur	ppm	ASTM D5185m		2941	2901	3479
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.0	20.7	15.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	5.8	6.6	8.6
Visc @ 100°C	cSt	ASTM D445	14	12.1	▲ 12.4	12.9



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0017582  
**Lab Number** : 06083352  
**Unique Number** : 10870797  
**Test Package** : FLEET ( Additional Tests: PercentFuel )

**RTL PACLEASE - 7006 - Pico Rivera**  
 7837 Telegraph Rd  
 Pico Rivera, CA  
 US 90660  
 Contact: Rudy Trevizo  
 TrevizoR@RushEnterprises.Com

Certificate L2367  
 Received : 08 Feb 2024  
 Tested : 09 Feb 2024  
 Diagnosed : 09 Feb 2024 - Wes Davis  
 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)