



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>ABNORMAL</b>
FLUID CONDITION	<b>ABNORMAL</b>

Machine Id  
**HINO 846-4621**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL DELVAC 1300 SUPER15W40 (--- GAL)**

## RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0019317</b>	RPL0017552	RPL0015851
Sample Date		Client Info		<b>19 Apr 2024</b>	20 Jan 2024	20 Oct 2023
Machine Age	mls	Client Info		<b>149293</b>	143797	137080
Oil Age	mls	Client Info		<b>7091</b>	143797	8961
Filter Age	mls	Client Info		<b>7091</b>	0	8961
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Sample Status				<b>ABNORMAL</b>	MARGINAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>9</b>	5	22
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	<1	<1
Lead	ppm	ASTM D5185m	>40	<b>2</b>	1	2
Copper	ppm	ASTM D5185m	>330	<b>0</b>	1	4
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	2
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

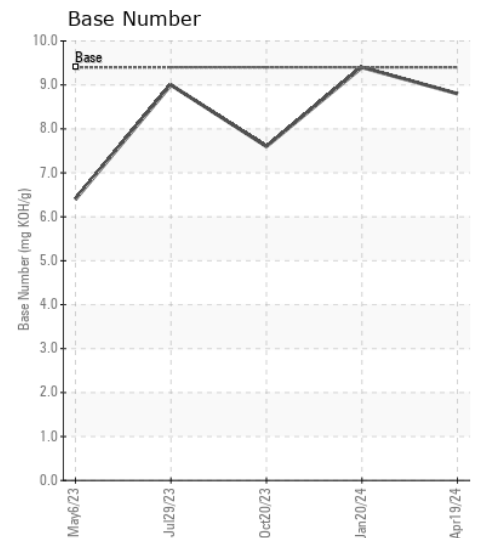
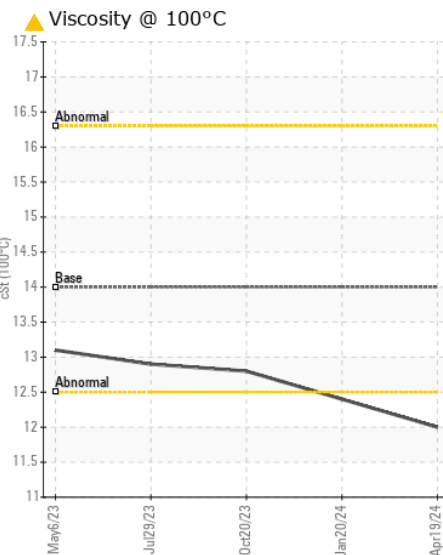
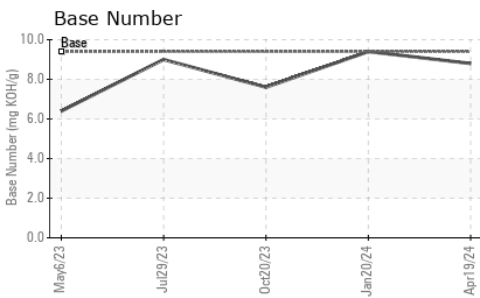
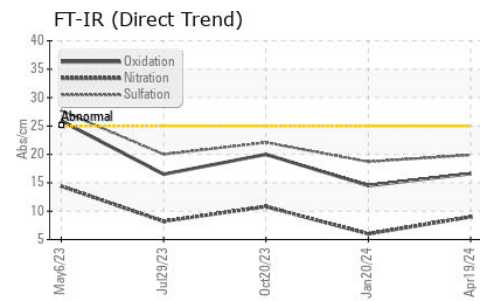
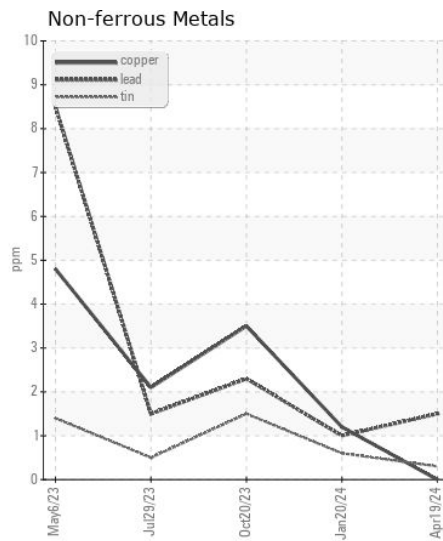
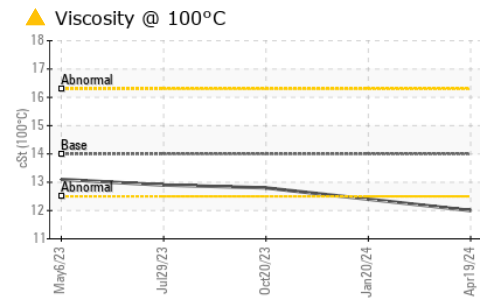
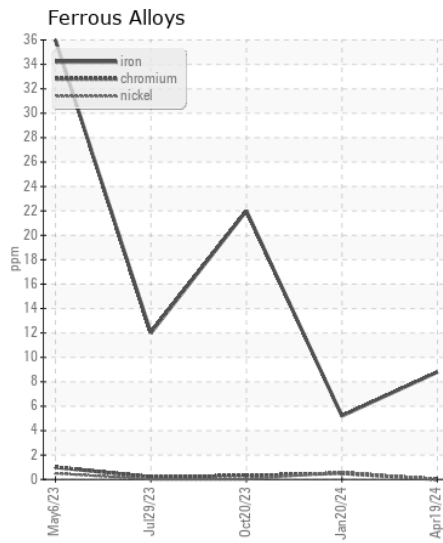
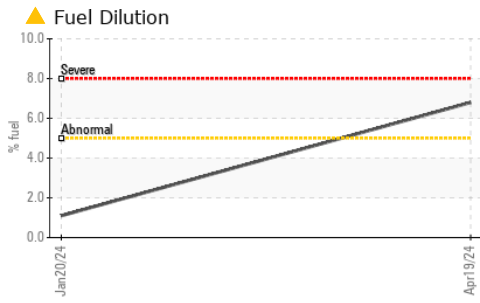
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>3</b>	4	4
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	2
Fuel	%	ASTM D3524	>5	<b>▲ 6.8</b>	1.1	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.4</b>	0.2	0.7
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.0</b>	6.0	10.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.9</b>	18.7	22.1
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m		<b>2</b>	0	6
Boron	ppm	ASTM D5185m	0	<b>2</b>	2	1
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	20
Molybdenum	ppm	ASTM D5185m	0	<b>64</b>	61	65
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	0	<b>986</b>	973	952
Calcium	ppm	ASTM D5185m		<b>1142</b>	999	1038
Phosphorus	ppm	ASTM D5185m		<b>1115</b>	991	1008
Zinc	ppm	ASTM D5185m		<b>1294</b>	1233	1202
Sulfur	ppm	ASTM D5185m		<b>3674</b>	3215	3897
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.6</b>	14.5	20.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	<b>8.8</b>	9.4	7.6
Visc @ 100°C	cSt	ASTM D445	14	<b>▲ 12.0</b>	▲ 12.4	12.8



Certificate L2367

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

Sample No. : RPL0019317

Lab Number : 06175316

Unique Number : 11021369

Test Package : FLEET ( Additional Tests: FuelDilution, PercentFuel )

Received : 10 May 2024

Tested : 15 May 2024

Diagnosed : 15 May 2024 - Wes Davis

RTL PACLEASE - 7006 - Pico Rivera

7837 Telegraph Rd

Pico Rivera, CA

US 90660

Contact: GERARDO CARROLA

carrolag@rushenterprises.com

T:

F:

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)