



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	ABNORMAL

Machine Id
846-4820
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER 15W40 (--- QTS)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0020497	RPL0016181	RPL0011321
Sample Date		Client Info		28 Jun 2024	11 Jan 2024	11 Aug 2023
Machine Age	mls	Client Info		87999	77023	69790
Oil Age	mls	Client Info		54447	7232	25697
Filter Age	mls	Client Info		54447	7232	25697
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				ABNORMAL	NORMAL	MARGINAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	15	8	26
Chromium	ppm	ASTM D5185m	>20	1	<1	1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	9	6	12
Lead	ppm	ASTM D5185m	>40	2	<1	4
Copper	ppm	ASTM D5185m	>330	1	<1	2
Tin	ppm	ASTM D5185m	>15	<1	<1	1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

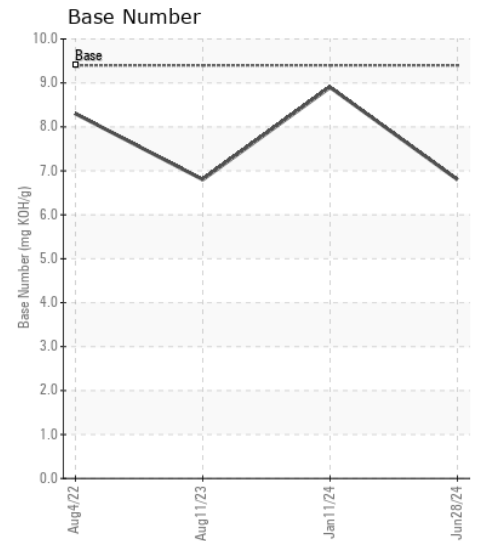
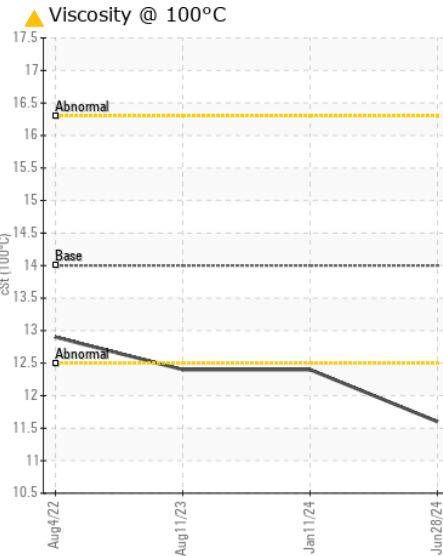
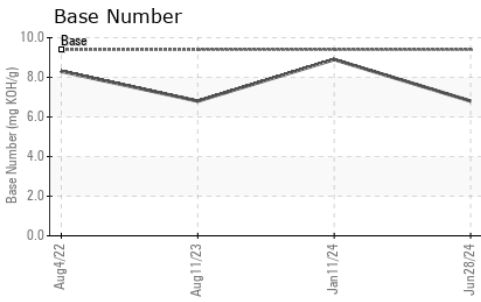
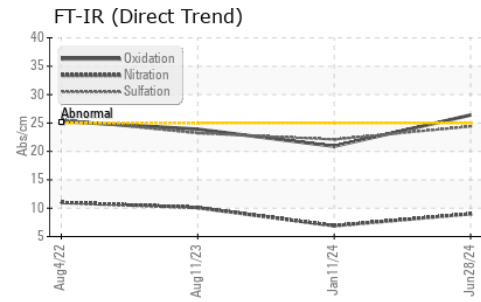
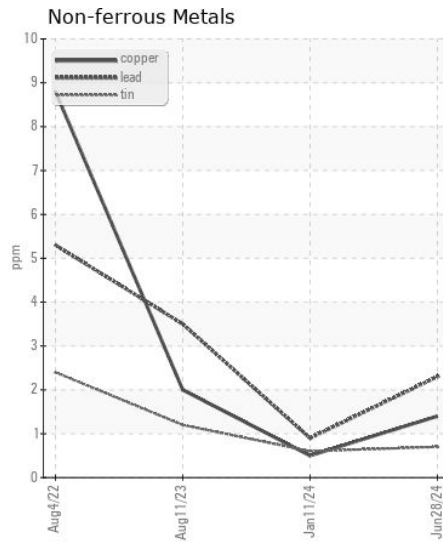
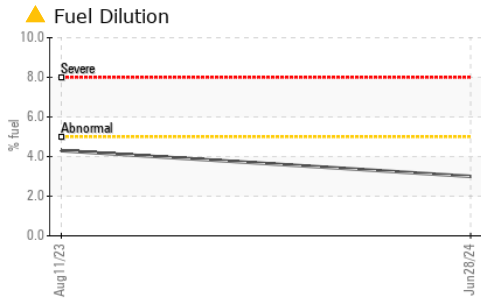
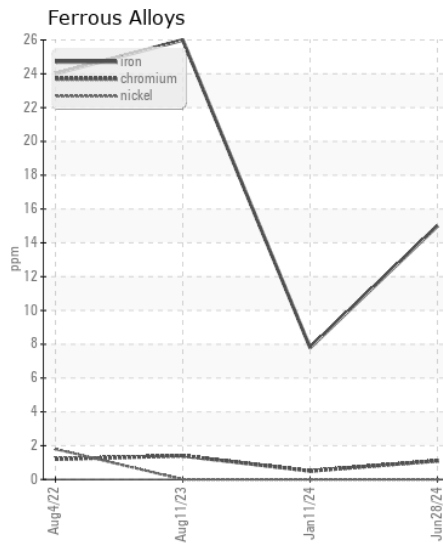
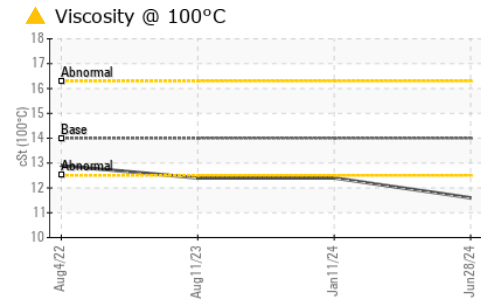
Light fuel dilution occurring.

Silicon	ppm	ASTM D5185m	>25	7	7	11
Potassium	ppm	ASTM D5185m	>20	18	11	28
Fuel	%	ASTM D3524	>5	▲ 3.0	<1.0	▲ 4.3
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.5
Nitration	Abs/cm	*ASTM D7624	>20	9.0	6.9	10.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.4	22.1	23.2
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

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity.

Sodium	ppm	ASTM D5185m		4	<1	3
Boron	ppm	ASTM D5185m	0	44	61	46
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	65	54	47
Manganese	ppm	ASTM D5185m		0	<1	1
Magnesium	ppm	ASTM D5185m	0	602	591	522
Calcium	ppm	ASTM D5185m		1746	1736	1652
Phosphorus	ppm	ASTM D5185m		802	808	760
Zinc	ppm	ASTM D5185m		998	901	957
Sulfur	ppm	ASTM D5185m		2505	2730	2919
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.4	20.9	23.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	6.8	8.9	6.8
Visc @ 100°C	cSt	ASTM D445	14	▲ 11.6	12.4	12.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0020497 **Received** : 12 Jul 2024
Lab Number : 06234497 **Tested** : 16 Jul 2024
Unique Number : 11123331 **Diagnosed** : 16 Jul 2024 - Sean Felton
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

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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)