



PacLease

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id
8464329
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER 15W40 (--- QTS)

RECOMMENDATION

The oil is near the end of it's useful service life, recommend schedule an oil change. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0020512	RPL0018070	RPL0015090
Sample Date		Client Info		08 Jun 2024	28 Mar 2024	21 Oct 2023
Machine Age	mls	Client Info		143050	140127	128453
Oil Age	mls	Client Info		143050	11674	102274
Filter Age	mls	Client Info		143050	11674	102274
Oil Changed		Client Info		Not Changd	N/A	Changed
Filter Changed		Client Info		Not Changd	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

Cylinder, crank, or cam shaft wear is indicated.

Iron	ppm	ASTM D5185m	>100	▲ 255	40	42
Chromium	ppm	ASTM D5185m	>20	6	2	1
Nickel	ppm	ASTM D5185m	>4	2	1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	80	45	32
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	19	4	5
Tin	ppm	ASTM D5185m	>15	1	2	1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

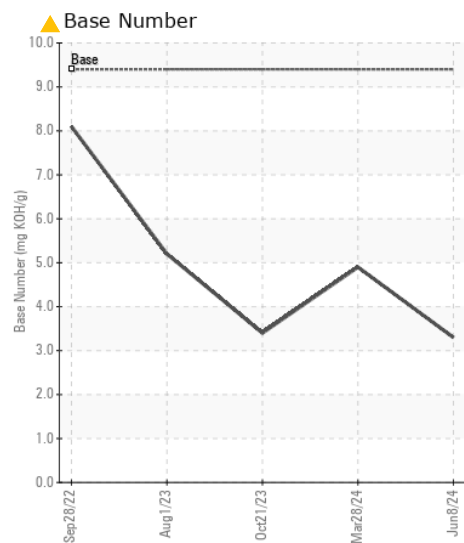
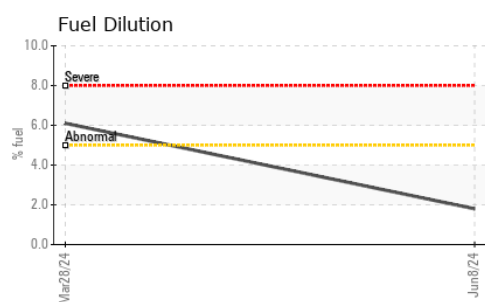
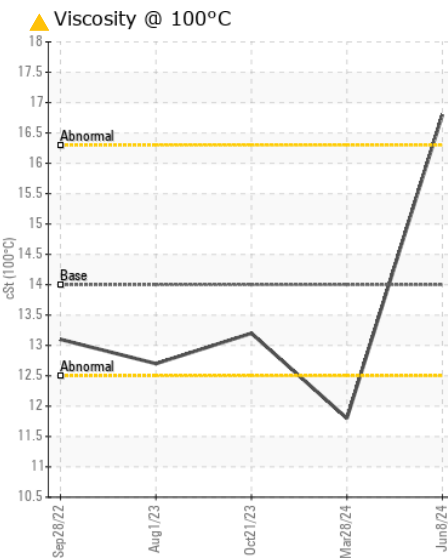
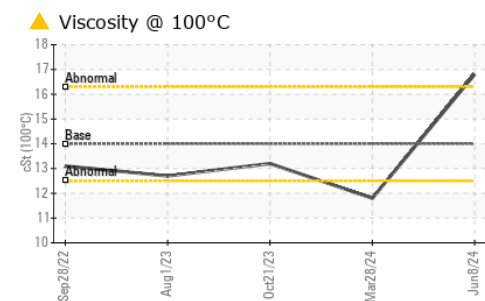
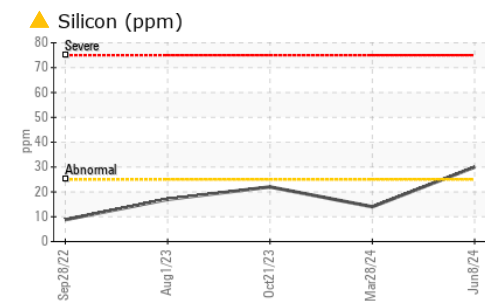
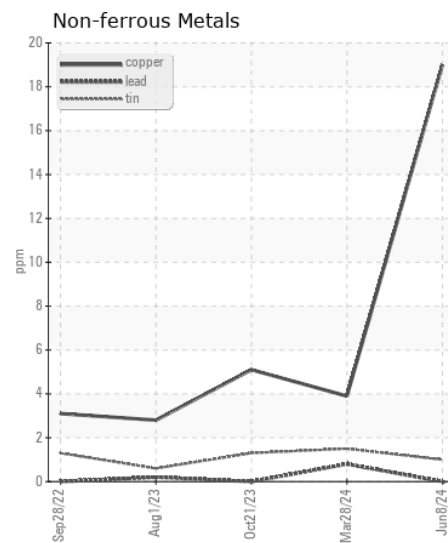
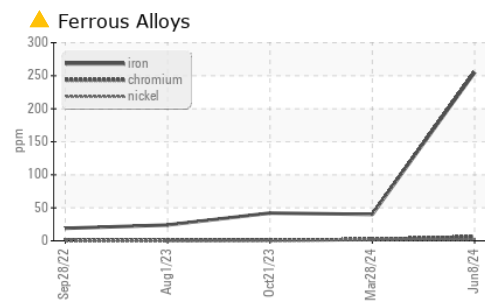
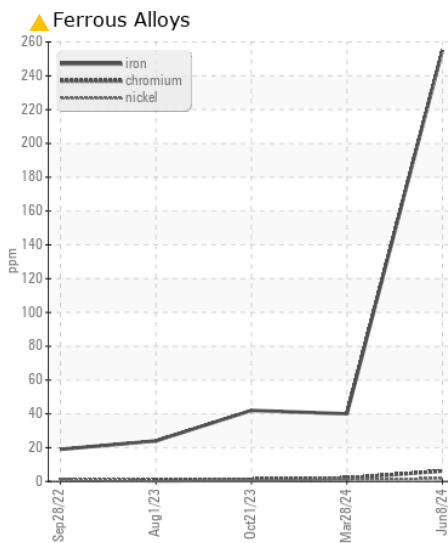
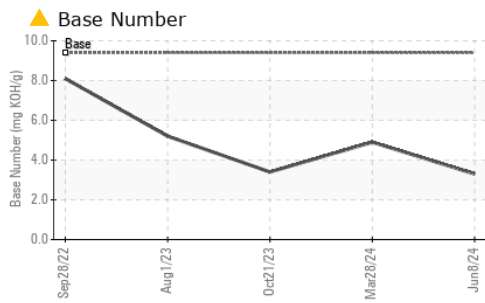
Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material.

Silicon	ppm	ASTM D5185m	>25	▲ 30	14	22
Potassium	ppm	ASTM D5185m	>20	163	85	58
Fuel	%	ASTM D3524	>5	1.8	▲ 6.1	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	1.9	0.9	0.7
Nitration	Abs/cm	*ASTM D7624	>20	20.9	13.5	13.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	39.9	27.5	30.3
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 oil viscosity is higher than normal. The BN level is low.

Sodium	ppm	ASTM D5185m		10	4	7
Boron	ppm	ASTM D5185m	0	44	25	24
Barium	ppm	ASTM D5185m	0	0	<1	20
Molybdenum	ppm	ASTM D5185m	0	37	73	42
Manganese	ppm	ASTM D5185m		3	1	1
Magnesium	ppm	ASTM D5185m	0	760	519	463
Calcium	ppm	ASTM D5185m		1865	1367	1492
Phosphorus	ppm	ASTM D5185m		926	673	643
Zinc	ppm	ASTM D5185m		1151	817	817
Sulfur	ppm	ASTM D5185m		2928	2629	2755
Oxidation	Abs/.1mm	*ASTM D7414	>25	51.6	31.3	38.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	▲ 3.3	4.9	▲ 3.4
Visc @ 100°C	cSt	ASTM D445	14	▲ 16.8	▲ 11.8	13.2



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0020512 **Received** : 19 Jun 2024
Lab Number : 06214178 **Tested** : 21 Jun 2024
Unique Number : 11087042 **Diagnosed** : 21 Jun 2024 - Jonathan Hester
Test Package : FLEET (Additional Tests: 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)