



PacLease

OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
ABNORMAL
ATTENTION

Machine Id
8591729

Component
Diesel Engine

Fluid
MOBIL DELVAC 1300 SUPER 15W40 (--- QTS)

RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

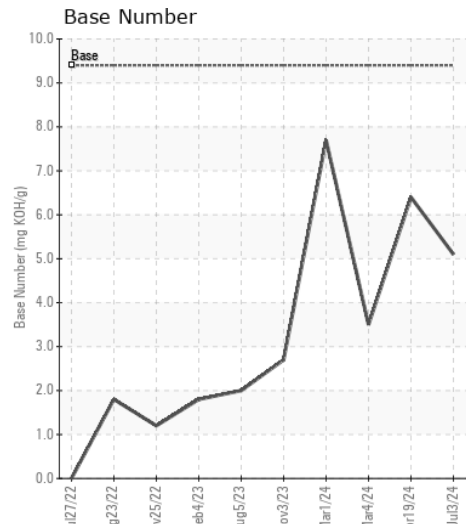
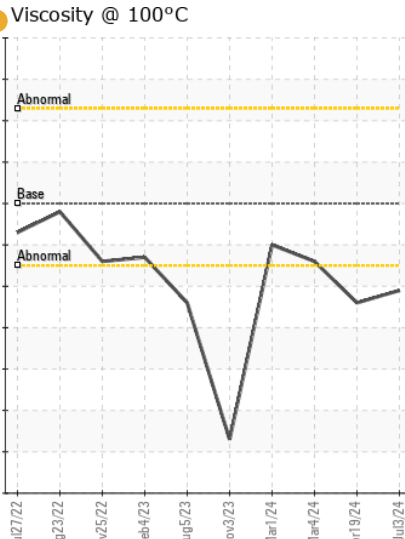
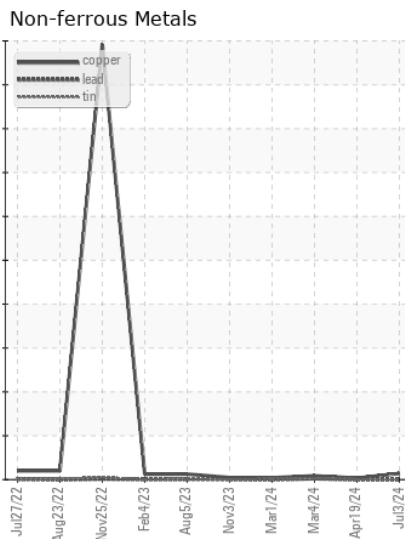
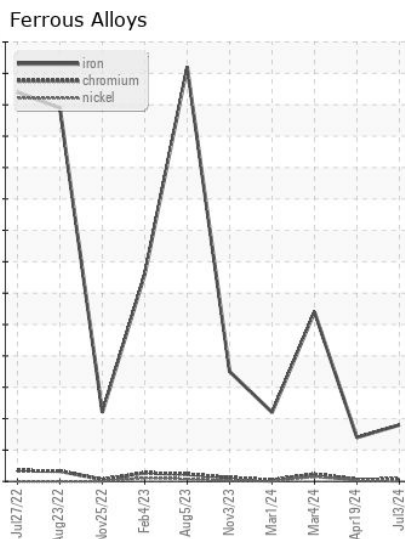
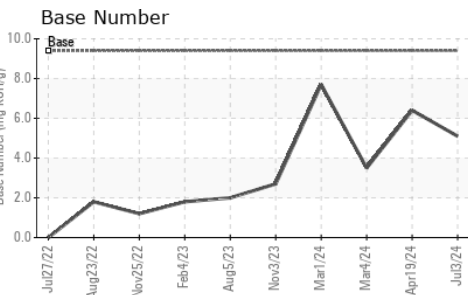
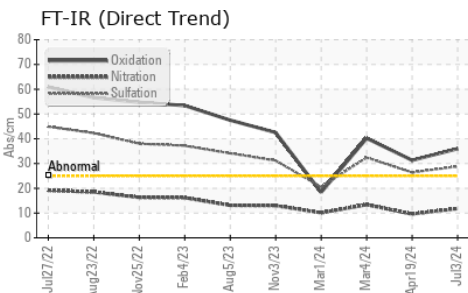
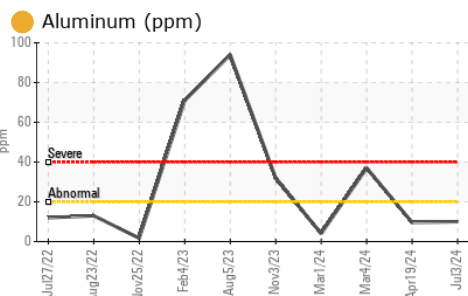
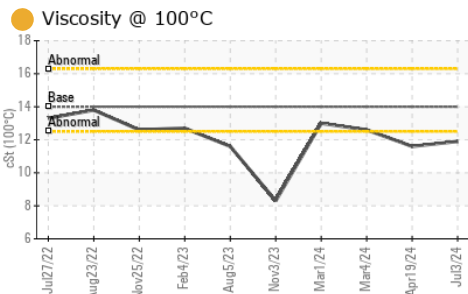
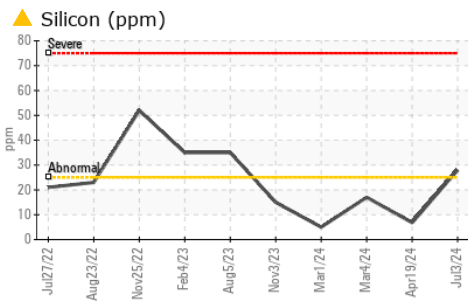
CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0022010	RPL0018169	RPL0018054
Sample Date		Client Info		03 Jul 2024	19 Apr 2024	04 Mar 2024
Machine Age	mls	Client Info		239647	236050	227434
Oil Age	mls	Client Info		0	39025	30405
Filter Age	mls	Client Info		0	39025	30405
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	MARGINAL
Iron	ppm	ASTM D5185m	>100	18	14	54
Chromium	ppm	ASTM D5185m	>20	<1	<1	2
Nickel	ppm	ASTM D5185m	>4	0	<1	2
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	10	10	37
Lead	ppm	ASTM D5185m	>40	0	0	1
Copper	ppm	ASTM D5185m	>330	7	2	4
Tin	ppm	ASTM D5185m	>15	0	<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
Silicon	ppm	ASTM D5185m	>25	28	7	17
Potassium	ppm	ASTM D5185m	>20	13	16	74
Fuel	%	ASTM D3524	>5	<1.0	3.2	2.3
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.5
Nitration	Abs/cm	*ASTM D7624	>20	11.8	9.6	13.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	28.8	26.4	32.4
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
Sodium	ppm	ASTM D5185m		4	<1	2
Boron	ppm	ASTM D5185m	0	25	27	32
Barium	ppm	ASTM D5185m	0	0	0	<1
Molybdenum	ppm	ASTM D5185m	0	45	47	80
Manganese	ppm	ASTM D5185m		2	<1	1
Magnesium	ppm	ASTM D5185m	0	464	480	558
Calcium	ppm	ASTM D5185m		1525	1540	1478
Phosphorus	ppm	ASTM D5185m		667	783	789
Zinc	ppm	ASTM D5185m		839	907	885
Sulfur	ppm	ASTM D5185m		2619	2627	2706
Oxidation	Abs/.1mm	*ASTM D7414	>25	36.0	31.3	40.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	5.1	6.4	3.5
Visc @ 100°C	cSt	ASTM D445	14	11.9	11.6	12.6



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0022010 **Received** : 17 Jul 2024
Lab Number : 06238831 **Tested** : 17 Jul 2024
Unique Number : 11127665 **Diagnosed** : 17 Jul 2024 - Jonathan Hester
Test Package : FLEET (Additional Tests: FuelDilution, KV40)
 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)

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