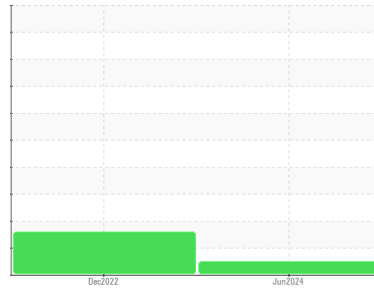


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

 Machine Id
ASL237599

 Component
Diesel Engine

 Fluid
DIESEL ENGINE OIL SAE 40 (--- GAL)
DIAGNOSIS
Recommendation

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0122782	PCA0072011	---
Sample Date	Client Info		21 Jun 2024	28 Dec 2022	---
Machine Age	hrs	Client Info	4848	0	---
Oil Age	hrs	Client Info	4848	0	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			NORMAL	ABNORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	0.5	---
Water	WC Method	>0.2	NEG	NEG	---
Glycol	WC Method		NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	19	38	---
Chromium	ppm	ASTM D5185m	>20	<1	1	---
Nickel	ppm	ASTM D5185m	>4	2	12	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	0	1	---
Aluminum	ppm	ASTM D5185m	>20	2	5	---
Lead	ppm	ASTM D5185m	>40	0	<1	---
Copper	ppm	ASTM D5185m	>330	8	309	---
Tin	ppm	ASTM D5185m	>15	<1	4	---
Vanadium	ppm	ASTM D5185m		0	0	---
Cadmium	ppm	ASTM D5185m		0	0	---

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	250	6	159	---
Barium	ppm	ASTM D5185m	10	0	0	---
Molybdenum	ppm	ASTM D5185m	100	61	102	---
Manganese	ppm	ASTM D5185m		0	4	---
Magnesium	ppm	ASTM D5185m	450	931	724	---
Calcium	ppm	ASTM D5185m	3000	1065	1363	---
Phosphorus	ppm	ASTM D5185m	1150	887	749	---
Zinc	ppm	ASTM D5185m	1350	1280	828	---
Sulfur	ppm	ASTM D5185m	4250	2582	2556	---

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	4	▲ 54	---
Sodium	ppm	ASTM D5185m	>216	6	3	---
Potassium	ppm	ASTM D5185m	>20	2	4	---

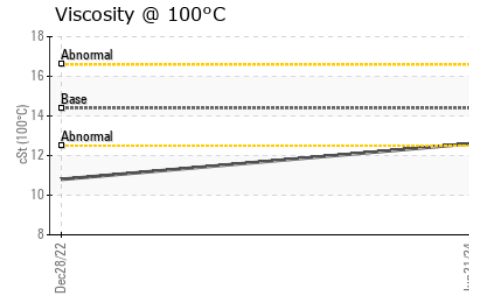
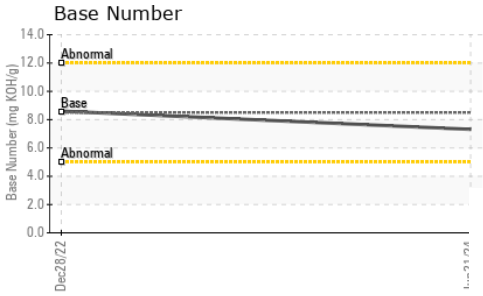
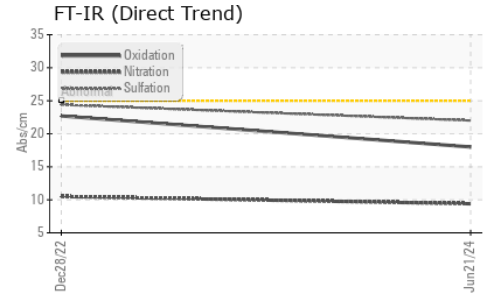
INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.7	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	9.4	10.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	24.4	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.0	22.7	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.31	8.60	---

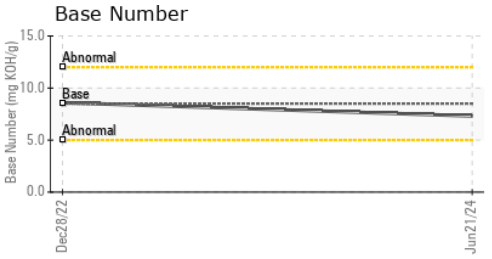
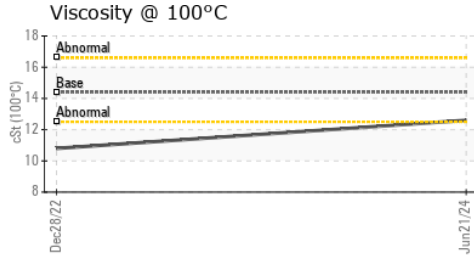
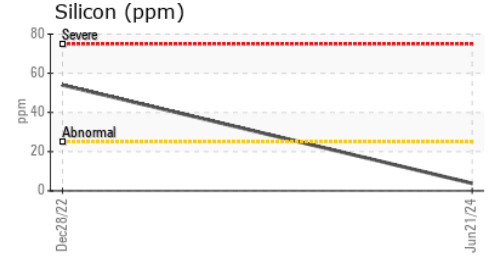
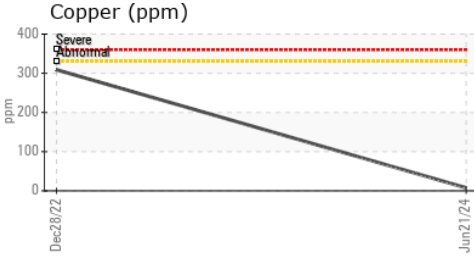
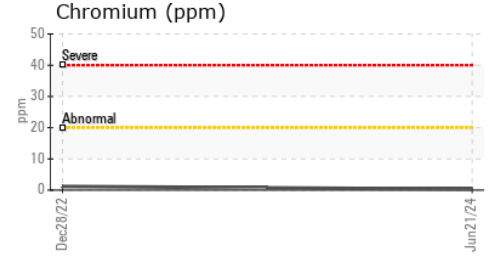
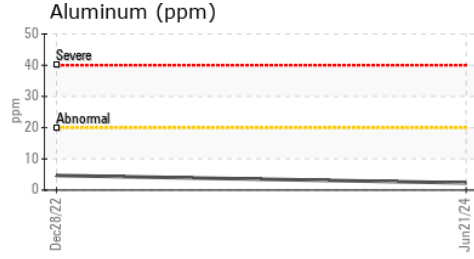
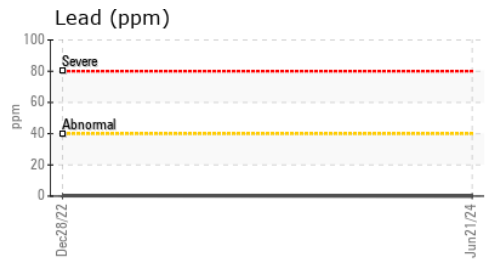
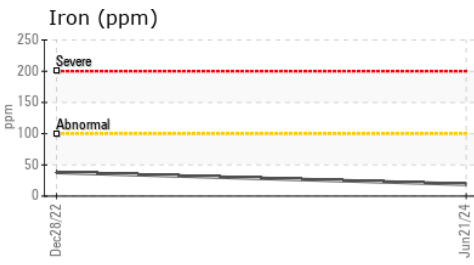
OIL ANALYSIS REPORT



PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	12.6	10.8

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0122782 **Received** : 26 Jun 2024
Lab Number : 06221428 **Tested** : 27 Jun 2024
Unique Number : 11099625 **Diagnosed** : 27 Jun 2024 - Wes Davis
Test Package : MOB 2

UMM - Shop 401 - Norton
 186 South Washington Street
 Norton, MA
 US 02766
 Contact: P Cohen
 pcohen@win-waste.com

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)