

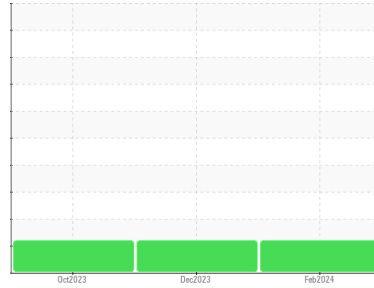
OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION



Machine Id
01
Component
Diesel Engine
Fluid
AMSOIL ASM 0W20 (--- QTS)



DIAGNOSIS

Recommendation
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is no indication of any contamination in the oil.

Fluid Condition
The BN level is low. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0071102	PCA0071101	PCA0071109
Sample Date	Client Info		01 Feb 2024	18 Dec 2023	27 Oct 2023
Machine Age	mls	Client Info	65000	60970	55000
Oil Age	mls	Client Info	5000	5100	5300
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	5	7	6
Chromium	ppm	ASTM D5185m >20	<1	<1	<1
Nickel	ppm	ASTM D5185m >4	0	<1	<1
Titanium	ppm	ASTM D5185m	0	<1	<1
Silver	ppm	ASTM D5185m >3	0	0	0
Aluminum	ppm	ASTM D5185m >20	3	3	2
Lead	ppm	ASTM D5185m >40	0	0	<1
Copper	ppm	ASTM D5185m >330	29	36	33
Tin	ppm	ASTM D5185m >15	<1	0	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	251	230	157
Barium	ppm	ASTM D5185m	0	9	0
Molybdenum	ppm	ASTM D5185m	207	210	186
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	859	881	808
Calcium	ppm	ASTM D5185m	1085	1190	1075
Phosphorus	ppm	ASTM D5185m	693	738	648
Zinc	ppm	ASTM D5185m	785	783	724
Sulfur	ppm	ASTM D5185m	3058	3364	2835

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	9	9	8
Sodium	ppm	ASTM D5185m	4	1	4
Potassium	ppm	ASTM D5185m >20	0	2	2

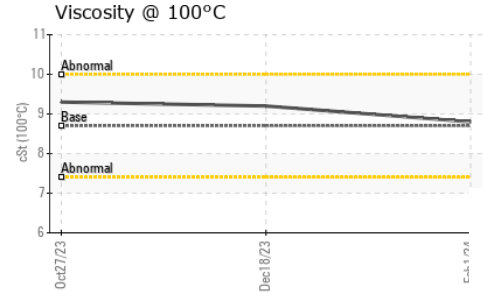
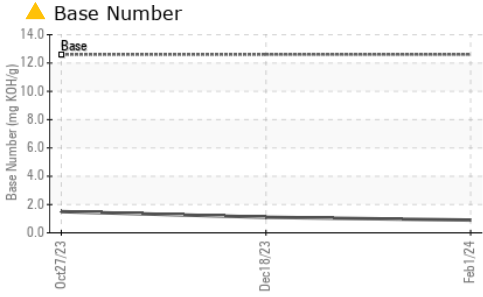
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624 >20	9.9	11.1	11.0
Sulfation	Abs/.1mm	*ASTM D7415 >30	54.4	61.2	62.9

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	61.5	63.9	64.4
Base Number (BN)	mg KOH/g	ASTM D2896 12.6	▲ 0.9	▲ 1.1	▲ 1.5

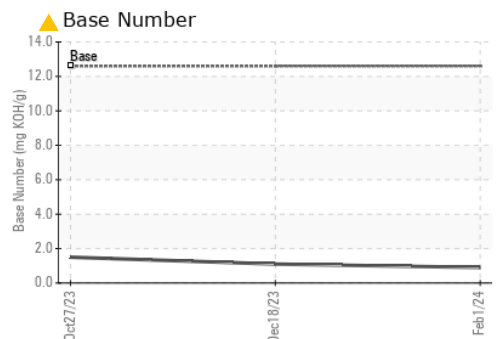
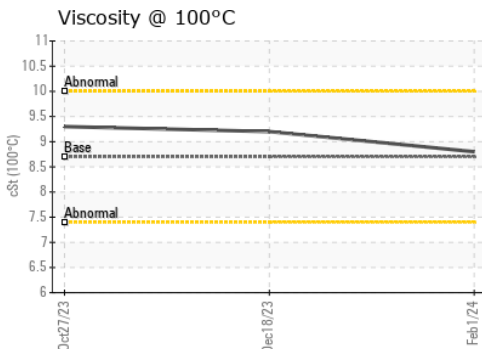
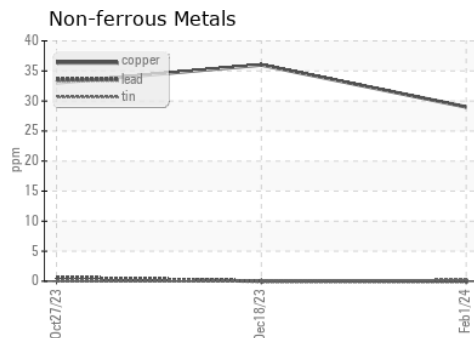
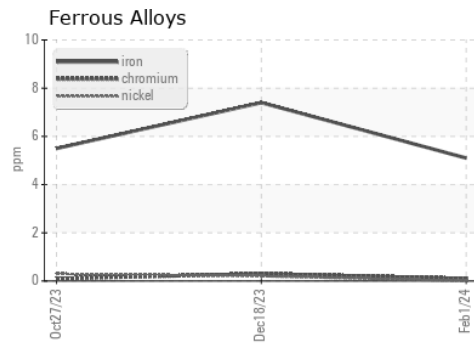
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
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
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445 8.7	8.8	9.2	9.3

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0071102
Lab Number : **06082966**
Unique Number : 10870411
Test Package : FLEET

AMERICAN NATURAL SUPPLY
 12475 RTE 119 HWY N
 ROCHESTER MILLS, PA
 US 15771
 Contact: SCOTT KINTER
 skinter@americannatural.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)

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F: