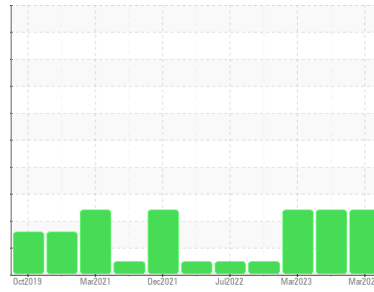


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
DT643
 Component
Front Differential
 Fluid
CHEVRON RPM SYNTHETIC GEAR 75W90 (4 GAL)

DIAGNOSIS

Recommendation
 We advise that you check all areas where dirt can enter the system. 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 condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2	
Sample Number	Client Info	PCA0120014	PCA0107433	PCA0092515	
Sample Date	Client Info	28 Mar 2024	16 Oct 2023	14 Mar 2023	
Machine Age	mls	Client Info	237542	237542	211985
Oil Age	mls	Client Info	211985	0	145156
Oil Changed	Client Info	N/A	Not Changd	Changed	
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL	

CONTAMINATION

method	limit/base	current	history1	history2	
Water	WC Method	>.2	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>500	421	451	267
Chromium	ppm	ASTM D5185m	>10	4	4	2
Nickel	ppm	ASTM D5185m	>10	<1	1	<1
Titanium	ppm	ASTM D5185m		2	1	1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	37	24	28
Lead	ppm	ASTM D5185m	>25	0	0	<1
Copper	ppm	ASTM D5185m	>100	3	21	17
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	<1	<1

ADDITIVES

method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m		235	231	203
Barium	ppm	ASTM D5185m		0	1	0
Molybdenum	ppm	ASTM D5185m		13	11	6
Manganese	ppm	ASTM D5185m		5	6	5
Magnesium	ppm	ASTM D5185m		120	124	78
Calcium	ppm	ASTM D5185m		234	216	125
Phosphorus	ppm	ASTM D5185m		1416	1464	1330
Zinc	ppm	ASTM D5185m		195	207	129
Sulfur	ppm	ASTM D5185m		24783	23203	24265

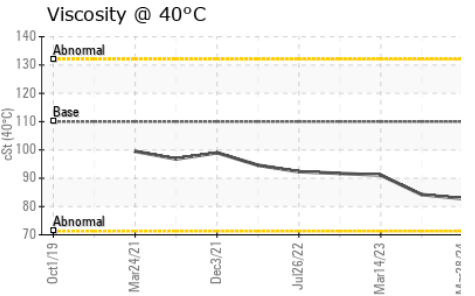
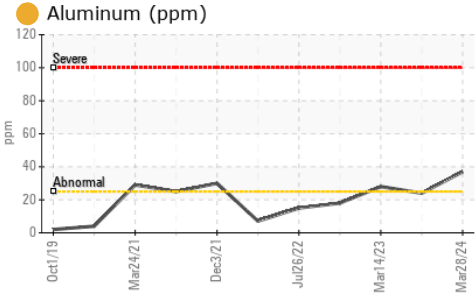
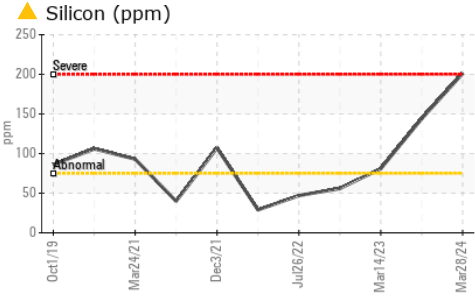
CONTAMINANTS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>75	201	144	81
Sodium	ppm	ASTM D5185m		8	5	3
Potassium	ppm	ASTM D5185m	>20	11	8	6

VISUAL

method	limit/base	current	history1	history2		
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	MODER	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	>.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

OIL ANALYSIS REPORT

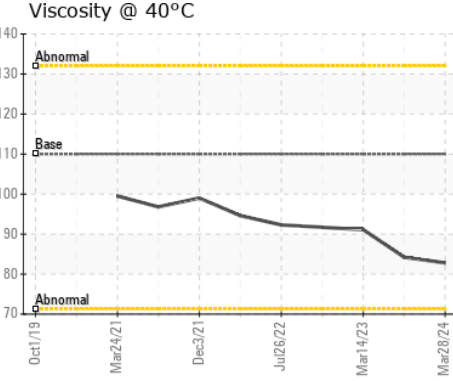
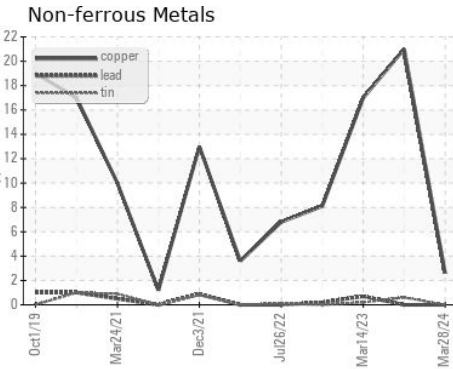
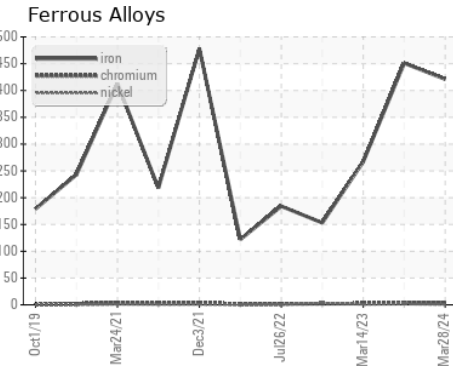


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	110	82.8	84.2	91.1

SAMPLE IMAGES		method	limit/base	current	history1	history2
---------------	--	--------	------------	---------	----------	----------

Color		no image	no image	no image
Bottom		no image	no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0120014 **Received** : 08 Apr 2024
Lab Number : 06141766 **Tested** : 09 Apr 2024
Unique Number : 10966574 **Diagnosed** : 10 Apr 2024 - Don Baldrige
Test Package : FLEET

NW WHITE & CO - COLUMBIA DIVISION
 100 INDEPENDENCE BLVD
 COLUMBIA, SC
 US 29210
 Contact: GEORGE EDWARDS
 gedwards@nwwhite.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)