

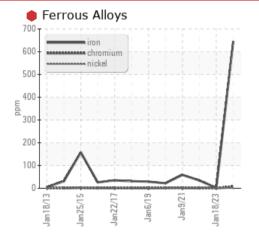
PROBLEM SUMMARY

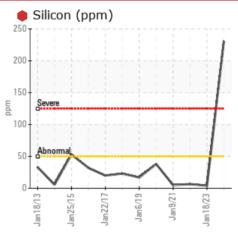
Area [603795753 SDR] Machine Id L-3 CARMEL PMP (S/N 20065654) Component

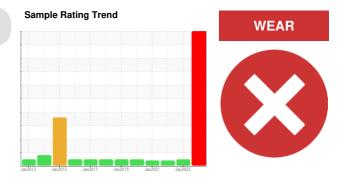
Gearbox

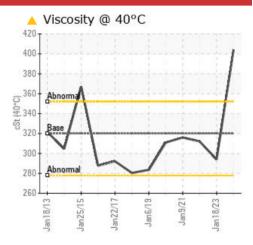
GEAR OIL ISO 320 (--- GAL)

COMPONENT CONDITION SUMMARY









RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	NORMAL	MARGINAL		
Iron	ppm	ASTM D5185m	>200	645	2	34		
Silicon	maa	ASTM D5185m	>50	231	4	6		

Customer Id: MARSCHI Sample No.: WC0854231 Lab Number: 06064460 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Inspect Wear Source			?	We advise that you inspect for the source(s) of wear.		
Resample			?	We recommend an early resample to monitor this condition.		
Check Dirt Access			?	We advise that you check all areas where dirt can enter the system.		

HISTORICAL DIAGNOSIS



NORMAL

18 Jan 2023 Diag: Don Baldridge

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report

05 Feb 2022 Diag: Doug Bogart

VIS DEBRIS



The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

09 Jan 2021 Diag: Don Baldridge

VIS DEBRIS

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Area [603795753 SDR] Machine Id L-3 CARMEL PMP (S/N 20065654) Component

Gearbox Fluid

GEAR OIL ISO 320 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

🛑 Wear

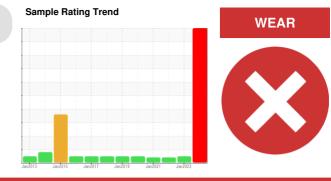
A sharp increase in the iron level is noted. Gear wear is indicated.

Contamination

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

Fluid Condition

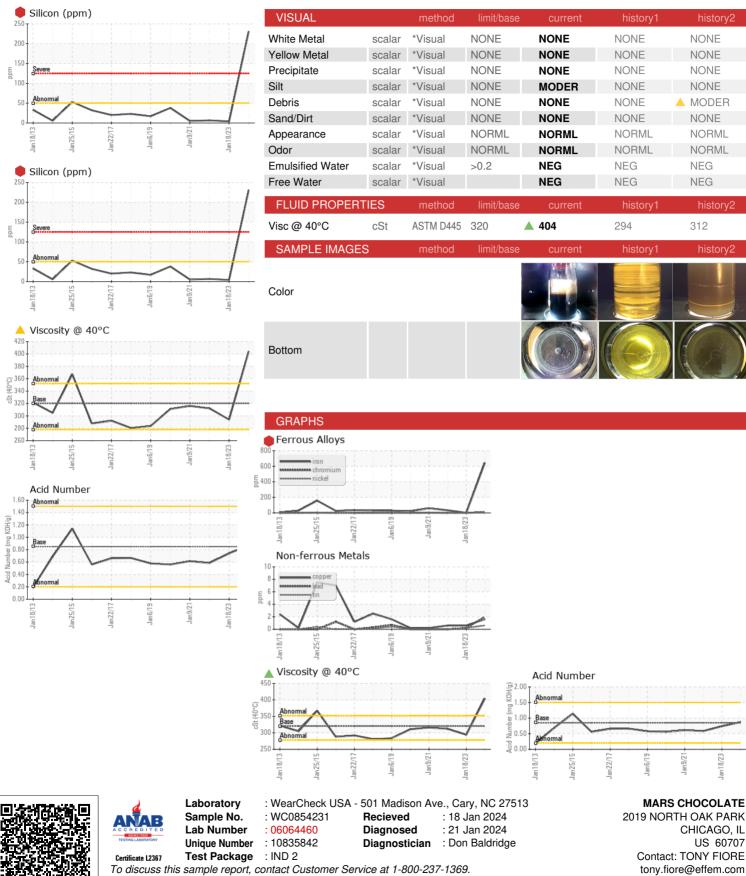
The oil viscosity is higher than normal. Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable due to the presence of contaminants.



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0854231	WC0605189	WC0605605
Sample Date		Client Info		30 Dec 2023	18 Jan 2023	05 Feb 2022
Machine Age	mls	Client Info		0	0	0
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	NORMAL	MARGINAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	645	2	34
Chromium	ppm	ASTM D5185m	>15	8	0	<1
Nickel	ppm	ASTM D5185m	>15	2	0	0
Titanium	ppm	ASTM D5185m		9	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	8	0	5
Lead	ppm	ASTM D5185m	>100	2	<1	0
Copper	ppm	ASTM D5185m	>200	2	<1	<1
Tin	ppm	ASTM D5185m	>25	<1	<1	0
Antimony	ppm	ASTM D5185m	>5			10
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	37	0	4
Barium	ppm	ASTM D5185m	15	0	0	0
Molybdenum	ppm	ASTM D5185m	15	<1	0	0
Manganese	ppm	ASTM D5185m		5	0	<1
Magnesium	ppm	ASTM D5185m	50	23	0	<1
Calcium	ppm	ASTM D5185m	50	3447	<1	178
Phosphorus	ppm	ASTM D5185m	350	282	235	235
Zinc	ppm	ASTM D5185m	100	748	4	251
Sulfur	ppm	ASTM D5185m	12500	1898	2200	1542
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	e 231	4	6
Sodium	ppm	ASTM D5185m		14	<1	19
Potassium	ppm	ASTM D5185m	>20	2	<1	3
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)		ASTM D8045		0.87	0.74	0.585



OIL ANALYSIS REPORT



* - 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)

Contact/Location: TONY FIORE - MARSCHI

F:

Jan9/21

MARS CHOCOLATE

CHICAGO, IL

T: (773)745-2279

US 60707

an6/19

NONE

NONE

NONE

NONE

A MODER

NONE

NORML

NORML

history

NEG

NEG

312