

OIL ANALYSIS REPORT

Sample Rating Trend

DIRT



Machine Ic CATERPILLAR 324D EXC-03 Component

Right Final Drive

{not provided} (--- 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 recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

A Wear

Silver and iron and titanium ppm levels are abnormal. Aluminum ppm levels are noted. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component.

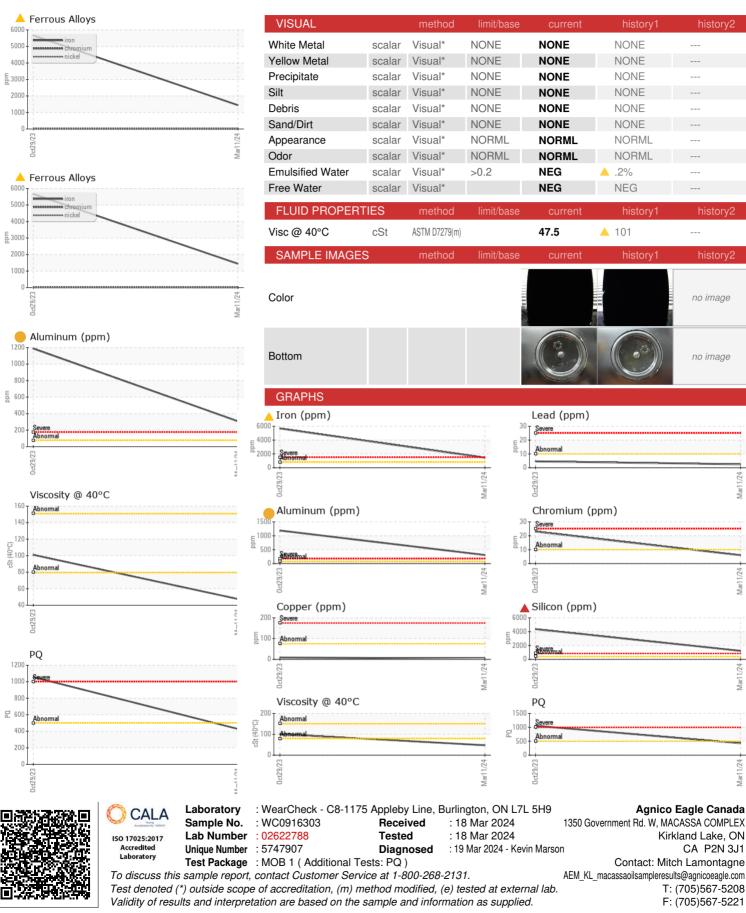
Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

_)			0ct2023	Mar2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0916303	WC0865544	
Sample Date		Client Info		11 Mar 2024	29 Oct 2023	
Machine Age	hrs	Client Info		7315	7074	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				SEVERE	SEVERE	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*	>500	428	1 057	
Iron	ppm	ASTM D5185(m)	>800	🔺 1443	▲ 5668	
Chromium	ppm	ASTM D5185(m)	>10	6	A 23	
Nickel	ppm	ASTM D5185(m)	>5	2	4	
Titanium	ppm	ASTM D5185(m)	>15	<mark>人</mark> 17	51	
Silver	ppm	ASTM D5185(m)	>2	<mark>/</mark> 3	2	
Aluminum	ppm	ASTM D5185(m)	>75	e 307	1188	
Lead	ppm	ASTM D5185(m)	>10	2	5	
Copper	ppm	ASTM D5185(m)	>75	4	9	
Tin	ppm	ASTM D5185(m)	>8	0	0	
Antimony	ppm	ASTM D5185(m)	>50	0	0	
Vanadium	ppm	ASTM D5185(m)		<1	3	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		5	17	
Barium	ppm	ASTM D5185(m)		4	14	
Molybdenum	ppm	ASTM D5185(m)		<1	4	
Manganese	ppm	ASTM D5185(m)		15	61	
Magnesium	ppm	ASTM D5185(m)		150	596	
Calcium	ppm	ASTM D5185(m)		3784	4959	
Phosphorus	ppm	ASTM D5185(m)		939	894	
Zinc	ppm	ASTM D5185(m)		1050	979	
Sulfur	ppm	ASTM D5185(m)		7316	5076	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>400	1222	4359	
Sodium	ppm	ASTM D5185(m)		114	426	
Potassium	ppm	ASTM D5185(m)	>20	82	300	



OIL ANALYSIS REPORT



Contact/Location: Mitch Lamontagne - KIR370KIR

no image

no image

Mar1

Mar11

1/24 Marl