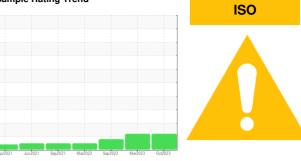


## **OIL ANALYSIS REPORT**

SAMPLE INFORMATION method

Sample Rating Trend

limit/base



current

history1

history2

Area DICK LAVY Machine Id DICK LAVY 4829 Component Front Differential

Differential Oil (--- GAL)

### DIAGNOSIS

#### A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

#### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		method	iiiiii/base	Current	Thistory I	Thistory 2
Sample Number		Client Info		WC0853966	WC0797140	WC0751668
Sample Date		Client Info		25 Oct 2023	14 Mar 2023	10 Sep 2022
Machine Age	mls	Client Info		315233	249800	203267
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m		279	115	242
Chromium	ppm	ASTM D5185m		2	1	2
Nickel	ppm	ASTM D5185m		- <1	<1	<1
Titanium	ppm	ASTM D5185m	210	<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	1
Lead	ppm	ASTM D5185m		0	0	<1
Copper	ppm	ASTM D5185m		2	1	1
Tin	ppm	ASTM D5185m		2 <1	0	<1
Vanadium	ppm	ASTM D5185m	210	0	0	0
Cadmium	ppm	ASTM D5185m		۰ <1	0	0
	ррш				-	-
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		91	97	87
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		10	5	9
Magnesium	ppm	ASTM D5185m		152	156	152
Calcium	ppm	ASTM D5185m		7	7	4
Phosphorus	ppm	ASTM D5185m		1601	1638	1544
Zinc	ppm	ASTM D5185m		0	5	0
Sulfur	ppm	ASTM D5185m		25662	28325	25056
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	25	18	17
Sodium	ppm	ASTM D5185m		2	3	3
Potassium	ppm	ASTM D5185m	>20	2	2	0
Water	%	ASTM D6304		0.031	0.023	0.035
ppm Water	ppm	ASTM D6304	>2000	315	230.8	353.3
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	▲ 66393	<b>A</b> 84783	<b>A</b> 79041
Particles >6µm		ASTM D7647	>5000	<u> </u>	▲ 7099	3699
Particles >14µm		ASTM D7647	>640	36	56	21
Particles >21µm		ASTM D7647	>160	6	8	5
Particles >38µm		ASTM D7647	>40	0	0	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>A</b> 23/20/12	4/20/13	▲ 23/19/12
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.72	0.72	0.96
					L	0.00



Water (KF)

12000

10000 Se

6000

4000

200

15

14

cSt (100°C)

10

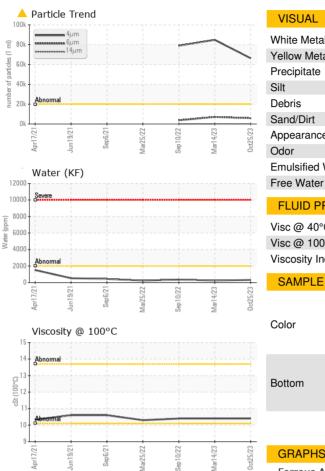
B

Apr17/21

Apr17/21

Water (ppm)

# **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	>.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		57.4	57.0	57.4
Visc @ 100°C	cSt	ASTM D445		10.4	10.4	10.4
Viscosity Index (VI)	Scale	ASTM D2270		172	173	172
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						Per UNIT

