

OIL ANALYSIS REPORT

Sample Rating Trend



Area DICK LAVY Machine Id DICK LAVY 4774 Component

Rear Differential Fluid 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 moderate amount of silt (particulates < 6 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.

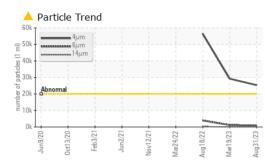
Sample Date Client Info 31 Aug 2023 19 Mar 2023 18 Aug 2022 Machine Age mis Client Info 443710 384916 334451 Oil Age Client Info 0 0 0 0 Oil Changed Client Info N/A N/A N/A N/A Sample Status method limit/base current history1 ABNORMAL WEAR METALS method limit/base current history1 ABNORMAL Nickel ppm ASTM 05155m >500 214 216 209 Chromium ppm ASTM 05155m >10 0 0 0 Nickel ppm ASTM 05155m >10 0 0 0 Aluminum ppm ASTM 05155m >100 2 1 2 Vanadium ppm ASTM 05155m >10 0 0 0 Adaminum ppm ASTM 05155m 136 143 130	SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Machine Age mis Client Info 443710 384916 334461 Oil Age mis Client Info 0 0 0 Oll Changed Client Info N/A N/A N/A Sample Status I Imit/base ATTENTION ATTENTION ABNORMAL WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM D51655 >10 1 <1 1 Nickel ppm ASTM D51655 >10 0 0 0 Sliver ppm ASTM D51655 >2 2 0 0 Cadmium ppm ASTM D51655 >2 2 0 0 Cadmium ppm ASTM D51655 >10 <1 0 1 Vanadium ppm ASTM D51655 >10 <1 0 1 Addition ppm ASTM D51655 >10 0 0 0 Cadmium ppm ASTM D51655 >10 0 0 0 Addition ppm ASTM D51655 <0 0 0 0 Addition ppm ASTM D51655 <0 0 <t< th=""><th>Sample Number</th><th></th><th>Client Info</th><th></th><th>WC0853897</th><th>WC0797151</th><th>WC0751639</th></t<>	Sample Number		Client Info		WC0853897	WC0797151	WC0751639
Oil Age mis Client Info N/A N/A N/A N/A Sample Status Image Client Info N/A ATTENTION ATTENTION ABNORMAL WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >500 214 216 209 Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m >25 2 2 3 Lead ppm ASTM D5185m >25 0 0 0 Copper ppm ASTM D5185m >10 2 1 2 Tin ppm ASTM D5185m >10 0 0 0 Cadmium ppm ASTM D5185m 0 <1 <1 1 Vanadium ppm ASTM D5185m 0	Sample Date		Client Info		31 Aug 2023	19 Mar 2023	18 Aug 2022
Oil Changed Client Info N/A N/A N/A N/A N/A Sample Status Image Image Current ATTENTION ABNORMAL WEAR METALS method Iimil/base current history1 history2 Iron ppm ASTM D5185m >500 214 216 209 Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m >10 0 0 0 Silver ppm ASTM D5185m >25 2 2 3 3 Lead ppm ASTM D5185m >10 <1 0 0 0 Cadmium ppm ASTM D5185m 10 <1 3 34 Barium ppm ASTM D5185m 0 0 0 0 ASTM D5185m 136 133 130 130 130 Cadmium ppm ASTM D5185m 136 <td< th=""><th>Machine Age</th><th>mls</th><th>Client Info</th><th></th><th>443710</th><th>384916</th><th>334461</th></td<>	Machine Age	mls	Client Info		443710	384916	334461
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Chromium ppm ASTM D5185m >10 1 <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m >10 0 0 0 Titanium ppm ASTM D5185m 0 0 0 Silver ppm ASTM D5185m >25 2 2 3 Lead ppm ASTM D5185m >25 0 0 0 Copper ppm ASTM D5185m >100 2 1 2 Tin ppm ASTM D5185m >10 <1 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Adminum ppm ASTM D5185m 0 <1 <1 <1 Vanadium ppm ASTM D5185m 0 <1 <1 <1 Barium ppm ASTM D5185m 0 <1 <1 <1 Maganese ppm ASTM D5185m 136 143 130 C	Iron	ppm	ASTM D5185m	>500	214	216	209
Titanium ppm ASTM D5185m 0 0 0 Silver ppm ASTM D5185m >25 2 2 3 Lead ppm ASTM D5185m >25 0 0 0 Copper ppm ASTM D5185m >210 2 1 2 Tin ppm ASTM D5185m >100 2 1 2 Tin ppm ASTM D5185m >100 <1 0 <1 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 353 367 344 Barium ppm ASTM D5185m 0 0 0 Maganese ppm ASTM D5185m 136 143 130 Calcium ppm ASTM D5185m 136 143 130 Calcium ppm ASTM D5185m 12011 1413 24258 24610 CONTAMINANTS method <th>Chromium</th> <td>ppm</td> <td>ASTM D5185m</td> <td>>10</td> <th>1</th> <td><1</td> <td>1</td>	Chromium	ppm	ASTM D5185m	>10	1	<1	1
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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 353 367 344 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 0 <1 <1 Manganese ppm ASTM D5185m 0 <1 <1 Manganesium ppm ASTM D5185m 136 143 130 Calcium ppm ASTM D5185m 19 16 15 Phosphorus ppm ASTM D5185m 0 0 4 Sulfur ppm ASTM D5185m 20213 24258 24610 CONTAMINANTS method limit/base current history1 history2 Solicon ppm ASTM D5185m >75 23 19<	Copper	ppm	ASTM D5185m	>100	2	1	2
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Boron ppm ASTM D5185m 353 367 344 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 0 <1 <1 Manganese ppm ASTM D5185m 9 8 8 Magnesium ppm ASTM D5185m 136 143 130 Calcium ppm ASTM D5185m 19 16 15 Phosphorus ppm ASTM D5185m 1411 1349 1413 Zinc ppm ASTM D5185m 1411 1349 1413 Zinc ppm ASTM D5185m 1411 1349 1413 Silicon ppm ASTM D5185m 20213 24258 24610 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 338 329 338 Water % ASTM D5185m >20 380.1 </th <th>Cadmium</th> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <th>0</th> <td>0</td> <td>0</td>	Cadmium	ppm	ASTM D5185m		0	0	0
Barium ppm ASTM D5185m 0 0 0 Manganese ppm ASTM D5185m 0 <1 <1 Manganese ppm ASTM D5185m 9 8 8 Magnesium ppm ASTM D5185m 136 143 130 Calcium ppm ASTM D5185m 19 16 15 Phosphorus ppm ASTM D5185m 1411 1349 1413 Zinc ppm ASTM D5185m 1411 1349 1413 Sulfur ppm ASTM D5185m 20213 24258 24610 CONTAMINANTS method limit/base current history1 history2 Sodium ppm ASTM D5185m >75 23 19 22 Sodium ppm ASTM D5185m >20 338 329 338 Water % ASTM D5185m >20 380.1 381.1 224.0 FLUID CLEANLINESS method l	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 0 <1	Boron	ppm	ASTM D5185m		353	367	344
Manganese ppm ASTM D5185m 9 8 8 Magnesium ppm ASTM D5185m 136 143 130 Calcium ppm ASTM D5185m 19 16 15 Phosphorus ppm ASTM D5185m 1411 1349 1413 Zinc ppm ASTM D5185m 0 0 4 Sulfur ppm ASTM D5185m 20213 24258 24610 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 23 19 22 Sodium ppm ASTM D5185m >77 6 5 Potassium ppm ASTM D504 >20 338 329 338 Water % ASTM D6304 >2 0.038 0.032 0.022 ppm Water ppm ASTM D7647 >20000 25316 29253 56306 Particles >4µm ASTM D7647 >20000 25316 29253 56306 Particles >4µm <th>Barium</th> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <th>0</th> <td>0</td> <td>0</td>	Barium	ppm	ASTM D5185m		0	0	0
Magnesium ppm ASTM D5185m 136 143 130 Calcium ppm ASTM D5185m 19 16 15 Phosphorus ppm ASTM D5185m 1411 1349 1413 Zinc ppm ASTM D5185m 0 0 4 Sulfur ppm ASTM D5185m 20213 24258 24610 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 23 19 22 Sodium ppm ASTM D5185m >75 23 19 22 Sodium ppm ASTM D5185m >7 6 5 Potassium ppm ASTM D6304 >.2 0.038 0.038 0.022 ppm Water ppm ASTM D7647 >20000 25316 29253 56306 Particles >4µm ASTM D7647 >5000 872 1172 3926 Particles >6µm ASTM D7647 >640 36 24 225 Particles >	Molybdenum	ppm	ASTM D5185m		0	<1	<1
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CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 23 19 22 Sodium ppm ASTM D5185m >75 23 19 22 Sodium ppm ASTM D5185m >7 6 5 Potassium ppm ASTM D5185m >20 338 329 338 Water % ASTM D6304 >.2 0.038 0.038 0.022 ppm Water ppm ASTM D6304 >.2 0.038 0.381.1 224.0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >20000 25316 29253 56306 Particles >6µm ASTM D7647 >5000 872 1172 3926 Particles >1µm ASTM D7647 >640 1 5 2 Particles >21µm ASTM D7647 >10 0 0 <t< th=""><th>Zinc</th><td>ppm</td><td>ASTM D5185m</td><td></td><th>0</th><td>0</td><td>4</td></t<>	Zinc	ppm	ASTM D5185m		0	0	4
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Potassium ppm ASTM D5185m >20 338 329 338 Water % ASTM D6304 >.2 0.038 0.038 0.022 ppm ASTM D6304 >.2 0.038 0.038 0.022 ppm Water ppm ASTM D6304 >2000 380.1 381.1 224.0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >20000 25316 29253 56306 Particles >6µm ASTM D7647 >5000 872 1172 3926 Particles >14µm ASTM D7647 >640 36 24 225 Particles >21µm ASTM D7647 >40 1 5 Particles >38µm ASTM D7647 >40 1 5 Particles >71µm ASTM D7647 >10 0 0 0 Oil Cleanliness ISO 4406 (c) >21/19/16 22/17/12 22/17/12 23/19/15 FLUID DEGR	Silicon	ppm	ASTM D5185m	>75			
Water % ASTM D6304 >.2 0.038 0.038 0.022 ppm Water ppm ASTM D6304 >2000 380.1 381.1 224.0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >2000 25316 29253 56306 Particles >6µm ASTM D7647 >5000 872 1172 3926 Particles >14µm ASTM D7647 >640 36 24 225 Particles >21µm ASTM D7647 >10 1 5 Particles >38µm ASTM D7647 >40 1 5 Particles >71µm ASTM D7647 >10 0 0 Oil Cleanliness ISO 4406 (c) >21/19/16 22/17/12 22/17/12 23/19/15 FLUID DEGRADATION method limit/base current history1 history2	Sodium	ppm	ASTM D5185m		7		
ppm Water ppm ASTM D6304 >2000 380.1 381.1 224.0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >20000 25316 29253 56306 Particles >6µm ASTM D7647 >5000 872 1172 3926 Particles >14µm ASTM D7647 >640 36 24 225 Particles >14µm ASTM D7647 >160 10 8 52 Particles >21µm ASTM D7647 >40 1 5 Particles >38µm ASTM D7647 >10 0 0 0 Oil Cleanliness ISO 4406 (c) >21/19/16 22/17/12 22/17/12 23/19/15 FLUID DEGRADATION method limit/base current history1 history2	Potassium						
FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >20000 ▲ 25316 ▲ 29253 ▲ 56306 Particles >6µm ASTM D7647 >5000 872 1172 3926 Particles >14µm ASTM D7647 >640 36 24 225 Particles >21µm ASTM D7647 >160 10 8 52 Particles >38µm ASTM D7647 >40 1 1 5 Particles >71µm ASTM D7647 >10 0 0 0 Oil Cleanliness ISO 4406 (c) >21/19/16 22/17/12 ▲ 22/17/12 ▲ 23/19/15 FLUID DEGRADATION method limit/base current history1 history2	Water	%	ASTM D6304	>.2	0.038	0.038	0.022
Particles >4µm ASTM D7647 >20000 ▲ 25316 ▲ 29253 ▲ 56306 Particles >6µm ASTM D7647 >5000 872 1172 3926 Particles >14µm ASTM D7647 >640 36 24 225 Particles >21µm ASTM D7647 >160 10 8 52 Particles >38µm ASTM D7647 >40 1 1 5 Particles >71µm ASTM D7647 >10 0 0 0 Oil Cleanliness ISO 4406 (c) >21/19/16 22/17/12 ▲ 22/17/12 ▲ 23/19/15	ppm Water	ppm	ASTM D6304	>2000	380.1	381.1	224.0
Particles >6µm ASTM D7647 >5000 872 1172 3926 Particles >14µm ASTM D7647 >640 36 24 225 Particles >21µm ASTM D7647 >160 10 8 52 Particles >38µm ASTM D7647 >40 1 1 5 Particles >38µm ASTM D7647 >10 0 0 0 Oil Cleanliness ISO 4406 (c) >21/19/16 22/17/12 23/19/15 FLUID DEGRADATION method limit/base current history1 history2	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >14µm ASTM D7647 >640 36 24 225 Particles >21µm ASTM D7647 >160 10 8 52 Particles >38µm ASTM D7647 >40 1 1 5 Particles >38µm ASTM D7647 >10 0 0 0 Oil Cleanliness ISO 4406 (c) >21/19/16 22/17/12 22/17/12 23/19/15 FLUID DEGRADATION method limit/base current history1 history2	Particles >4µm		ASTM D7647	>20000			
Particles >21μm ASTM D7647 >160 10 8 52 Particles >38μm ASTM D7647 >40 1 1 5 Particles >37μm ASTM D7647 >10 0 0 0 Oil Cleanliness ISO 4406 (c) >21/19/16 22/17/12 22/17/12 23/19/15 FLUID DEGRADATION method limit/base current history1 history2	Particles >6µm		ASTM D7647	>5000		1172	
Particles >38μm ASTM D7647 >40 1 1 5 Particles >71μm ASTM D7647 >10 0 0 0 Oil Cleanliness ISO 4406 (c) >21/19/16 22/17/12 22/17/12 23/19/15 FLUID DEGRADATION method limit/base current history1 history2	Particles >14µm						
Particles >71μm ASTM D7647 >10 0 0 0 Oil Cleanliness ISO 4406 (c) >21/19/16 22/17/12 22/17/12 23/19/15 FLUID DEGRADATION method limit/base current history1 history2	Particles >21µm		ASTM D7647	>160	10	8	52
Oil CleanlinessISO 4406 (c) >21/19/16 < 22/17/12	Particles >38µm		ASTM D7647	>40	1	1	5
FLUID DEGRADATION method limit/base current history1 history2	Particles >71µm		ASTM D7647	>10	0	0	0
	Oil Cleanliness		ISO 4406 (c)	>21/19/16	A 22/17/12	A 22/17/12	▲ 23/19/15
Acid Number (AN) mg KOH/g ASTM D8045 0.45 0.42 0.39	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.45	0.42	0.39

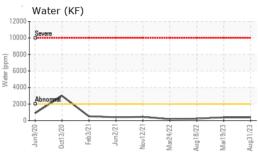


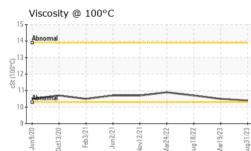
OIL ANALYSIS REPORT

Color

Bottom







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		60.8	60.7	60.8
Visc @ 100°C	cSt	ASTM D445		10.4	10.5	10.7
Viscosity Index (VI)	Scale	ASTM D2270		160	163	168
SAMPLE IMAGES		method	limit/base	current	history1	history2
					Real Provide State	Flee

