

OIL ANALYSIS REPORT



KEMP QUARRIES / HULBERT **WL043** Component

Rear Left Final Drive



	6 HD 50 (GAL)		
DIAGNOSIS	SAMPLE INFOR	MATION	N
 Recommendation 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 Bearing and/or gear wear is indicated. 	Sample Number Sample Date Machine Age Oil Age Oil Changed Sample Status	hrs hrs	
Contamination There is a light concentration of water present in the oil.	WEAR METAL Iron Chromium	_S ppm ppm	, A
Fluid Condition The oil is no longer serviceable as a result of the abnormal and/or severe wear.	Nickel Titanium Silver Aluminum Lead	ppm ppm ppm ppm	A A A A
	Copper Tin Antimony Vanadium	ppm ppm ppm ppm ppm	A A A A

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0085893	PCA0086177	PCA0048920
Sample Date		Client Info		08 Mar 2024	07 Jan 2023	12 Mar 2022
Machine Age	hrs	Client Info		27117	46167	45671
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				SEVERE	SEVERE	ABNORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>800	1779	1584	786
Chromium	ppm	ASTM D5185m	>10	4	4	1
Nickel	ppm	ASTM D5185m	>5	2	1	<1
Titanium	ppm	ASTM D5185m	>15	4	2	1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>75	29	14	6
Lead	ppm	ASTM D5185m	>10	▲ 12	8	3
Copper	ppm	ASTM D5185m	>75	<u> </u>	56	22
Tin	ppm	ASTM D5185m	>8	<u>▲</u> 10	5	2
Antimony	ppm	ASTM D5185m	>50			
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		5	4	4
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		6	3	2
Manganese	ppm	ASTM D5185m		15	13	5
Magnesium	ppm	ASTM D5185m		88	38	0
Calcium	ppm	ASTM D5185m		2834	2850	3266
Phosphorus	ppm	ASTM D5185m		1114	1050	1030
Zinc	ppm	ASTM D5185m		1291	1208	1391
Sulfur	ppm	ASTM D5185m		6459	6578	4306
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	314	115	54
Sodium	ppm	ASTM D5185m	>400	12	11	5
Potassium		ASTM D5185m	>20	6	3	0
Water	ppm %	ASTM D5165III ASTM D6304		o ▲ 0.360	o.384	
ppm Water	ppm	ASTM D6304 ASTM D6304		▲ 3600	▲ 3840	
	ppm					
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
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

Free Water Report Id: KEMHUL [WUSCAR] 06128211 (Generated: 03/28/2024 10:27:19) Rev: 1

Odor

Emulsified Water

scalar *Visual

scalar *Visual

scalar

*Visual

NORML

>0.2

NORML

0.2%

NEG

NORML

0.2%

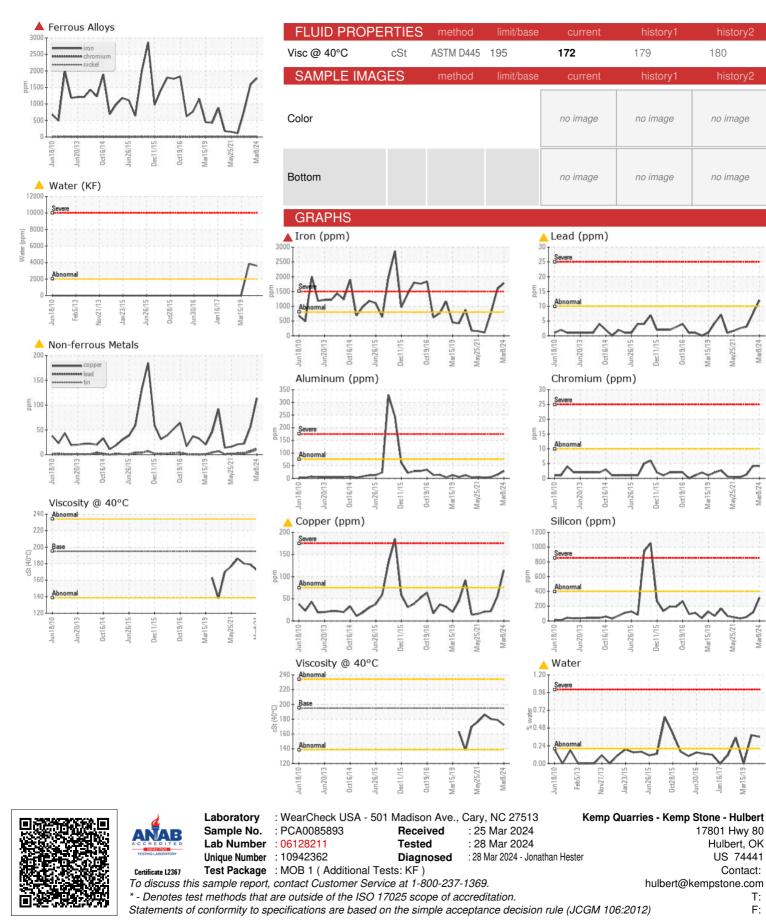
NEG

NORML

NEG



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T:

F: