

OIL ANALYSIS REPORT

KEMP QUARRIES / MUSKOGEE SAND **OHT086** Component

Front Differential

MOBIL MOBILTRANS HD 50 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

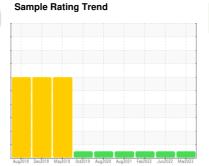
All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.





NORMAL

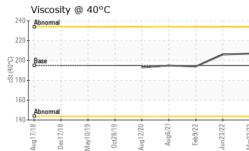
regular observa mejkara okskara egyptak regulark verkek evikak konsta							
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		PCA0087145	PCA0062251	PCA0061798	
Sample Date		Client Info		23 Mar 2023	23 Jun 2022	09 Feb 2022	
Machine Age	hrs	Client Info		19795	19380	19025	
Oil Age	hrs	Client Info		770	355	2210	
Oil Changed		Client Info		Not Changd	Not Changd	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>500	10	6	41	
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>10	0	0	<1	
Titanium	ppm	ASTM D5185m		0	<1	<1	
Silver	ppm	ASTM D5185m		0	<1	0	
Aluminum	ppm	ASTM D5185m	>25	1	<1	2	
Lead	ppm	ASTM D5185m	>25	<1	<1	1	
Copper	ppm	ASTM D5185m	>100	2	1	10	
Tin	ppm	ASTM D5185m	>10	0	<1	1	
Antimony	ppm	ASTM D5185m	>5			1	
Vanadium	ppm	ASTM D5185m		0	<1	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		4	4	9	
Barium	ppm	ASTM D5185m		0	0	0	
Molybdenum	ppm	ASTM D5185m		<1	<1	1	
Manganese	ppm	ASTM D5185m		0	<1	<1	

Danuni	ppm	ASTIVI DOTODIII		U	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	1
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		11	9	26
Calcium	ppm	ASTM D5185m		3011	2303	3235
Phosphorus	ppm	ASTM D5185m		1003	803	1100
Zinc	ppm	ASTM D5185m		1227	950	1318
Sulfur	ppm	ASTM D5185m		6349	5502	12885
CONTAMINAN	то	mathad	limit/base	ourroot	biotorut	history
CONTAIMINAN	15	method	iiiiii/Dase	current	history1	history2
Silicon	ppm	ASTM D5185m		13	11	7
Silicon	ppm	ASTM D5185m		13	11	7
Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>75	13 0	11 3	7 3
Silicon Sodium Potassium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>75 >20	13 0 2	11 3 8	7 3 2
Silicon Sodium Potassium VISUAL	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	>75 >20 limit/base	13 0 2 current	11 3 8 history1	7 3 2 history2

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



OIL ANALYSIS REPORT



	FLUID PROPE	ERTIES	method	limit/base	e current	, , , , , , , , , , , , , , , , , , ,		
	Visc @ 40°C	cSt	ASTM D445	195	207	206	194	
	SAMPLE IMA	GES	method	limit/base	e current	history1	history2	
0 +	Color				no image	no image	no image	
Aug12/20 Aug6/21 Feb9/22 Jun23/23 Mar23/23	Bottom				no image	no image	no image	
	GRAPHS							
	Iron (ppm)				Lead (ppm)			
	1500 - Severe				100 - Severe			
	1000 - 500 - Abnormal			E C C C C C C C C C C C C C C C C C C C	80 60 40 Abnormal			
			2	3	20	9	2	
	Aug17/18 - Dec17/18 - May10/19 -	Aug12/20	Aug6/21 Feb9/22	Mar23/23	Aug17/18 - Dec17/18 -	Oct28/19 Aug12/20 Aug6/21	Feb9/22 Jun23/22	
	Aluminum (ppm)				Chromium (p			
	100 - Severe				25 - Severe			
	80 - Ē_ 60 -				20 - 15 -			
	40 - <u>A</u> bnormal				10 - Abnormal			
	20	-	222				22	
	Aug17/18 Dec17/18 May10/19	Aug12/20	Aug6/21 Feb9/22 Jun23/22	Mar23/23	Aug17/18	0ct28/19 Aug12/20 Aug6/21	Feb9/22 Jun23/22	
	Copper (ppm)				Silicon (ppm)	-	Feb9/22 Jun23/22	
	200 - Severe				200 - Severe			
	Abnormal			mdd	150-			
	a 100 - Abnormal				Abnormal			
			2	e7	0	9	2	
	Aug17/18 - Dec17/18 - May10/19 -	Aug12/20	Aug6/21 Feb9/22 Jun23/22	Mar23/23	Aug17/18 Dec17/18 May10/19	Oct28/19 - Aug12/20 - Aug6/21 -	Feb9/22 Jun23/22	
	Viscosity @ 40°C			3	Additives	-		
	220 -			3	000 - calcium phosphoru	s		
(LasU) + 92	3 200 - Base 3 180 -			2 	500 - zinc		\sim	
	령 180 - 160 -			1	500-	No. of Street of		
	Abnormal		2		500			
	Aug17/18 . Dec17/19 . May10/19 .	Aug12/20	Aug6/21 Feb9/22 Jun23/22	Mar23/23	Aug17/18 - Dec17/18 - May10/19 -	Oct28/19 Aug12/20 Aug6/21	Feb9/22 Jun23/22	
Laboratory Sample No. Lab Number Unique Number Test Package	: WearCheck USA - : PCA0087145 : 05900838 : 10562194	501 Mad Receive Diagnos Diagnos	ed : 17 sed : 19	ary, NC 275 Jul 2023 Jul 2023 s Davis		p Quarries - M	uskogee Sar 95 W 50th St Porter, C US 744 Contac	
iscuss this sample report,		vice at 1-	800-237-136	9.	m	uskogee@musk		