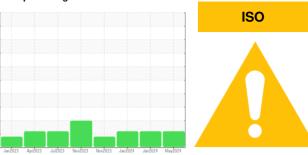


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

KD-2 LP NOX PUMP

Component Hydraulic System

MOBIL DELVAC 1 5W40 (--- GAL)

DIAGNOSIS

Recommendation

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.

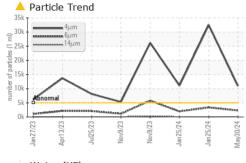
Fluid Condition

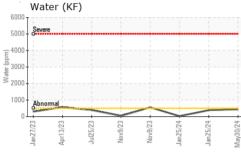
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

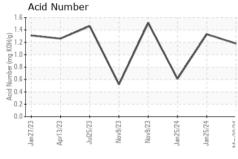
		Jan 2023 A	Apr2023 Jul2023 Nov20	23 Nov2023 Jan2024 Jan2024	May2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0012891	USP0007088	USP0007079
Sample Date		Client Info		30 May 2024	25 Jan 2024	25 Jan 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	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	>20	2	0	<1
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	3	0
Lead	ppm	ASTM D5185m	>20	<1	<1	0
Copper	ppm	ASTM D5185m	>20	<1	0	0
Tin	ppm	ASTM D5185m	>20	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	291	117	131	0
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	8.0	42	43	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	624	864	841	0
Calcium	ppm	ASTM D5185m	2158	1014	932	4
Phosphorus	ppm	ASTM D5185m	1132	1112	1024	394
Zinc	ppm	ASTM D5185m	1300	1247	1227	6
Sulfur	ppm	ASTM D5185m	3616	3639	3021	74
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	4	19
Sodium	ppm	ASTM D5185m		<1	0	<1
Potassium	ppm	ASTM D5185m	>20	<1	1	0
Water	%	ASTM D6304	>0.05	0.043	0.038	0.003
ppm Water	ppm	ASTM D6304	>500	438	386	28
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	10982	<u> </u>	▲ 32477
Particles >6µm		ASTM D7647	>1300	2285	1972	▲ 3352
Particles >14µm		ASTM D7647	>160	100	65	52
Particles >21µm		ASTM D7647	>40	30	15	9
Particles >38µm		ASTM D7647	>10	2	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 21/18/14	1 21/18/13	22/19/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.18	1.33	0.61

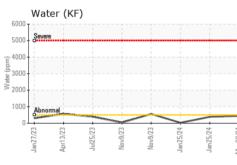


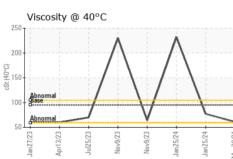
OIL ANALYSIS REPORT











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	LIGHT	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	ed Water scalar		>0.05 NEG		NEG	NEG			
Free Water scalar		*Visual		NEG	NEG	NEG			
FLUID PROPERT	TES	method	limit/base	current	history1	history2			
Visc @ 40°C cSt		ASTM D445	95	60.8	77.1	232			
SAMPLE IMAGES		method	limit/base	current	history1	history2			

O/	
Color	
00101	





	APHS										
	ous Alloys							rticle Coun	t		
	iron						491,520				T ²
	chromium						122,880				-2
+	- Inokoi						30,720 Severe				-2
		_					7,680 Abres	mal			12
Jan27/23	Apr13/23 Jul25/23	Nov9/23	Nov9/23	Jan25/24	Jan25/24	May30/24		1			
Jan2	Apr1 Jul2	N	Nov	Jan2	Jan2	May3	<u>a</u> 1,920 -				1
	-ferrous Me	etals					1,920 - 480 -	1			+2 +1 +1 +1 +1
I	copper						120-		/		1
	nanana lead						30				
1							30+				[†]
:	and the last of th	Batter			Name of State	NAME OF TAXABLE PARTY.	8-				-1
1/23		Nov9/23	Nov9/23	5/24	5/24	9/24	2-			/	-8
Jan27/23	Apr13/23	Nov	Nov	Jan25/24	Jan25/24	May30/24	0				
Visc	osity @ 40°	C.					04 _µ	ம் d Number	14µ 21;	и 38µ	71μ
) T							\$2.0 _T	u Number			
)							g _{1.5}				
		/ `	\	/ `	\		£ 1.0		\ /	\ /	
- Abno			$\downarrow \neq$				d 0.5				
Abno							Acid Number (mg KOH/g)				
an27/23	Apr13/23	Nov9/23	Nov9/23	an25/24	an25/24	lay30/24	an 27/23	Apr13/23	Nov9/23	nov3/23	an25/24





Laboratory Sample No.

Lab Number : 06196714 Unique Number : 11058837 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : USP0012891

Received : 31 May 2024 **Tested** : 03 Jun 2024 Diagnosed

: 03 Jun 2024 - Doug Bogart

ENERGY CENTER DOVER LLC - DCODOV 1280 W NORTH ST DOVER, DE US 19904

Contact: ERNIE JUST ernie.just@clearwayenergy.com T: (302)678-4353

Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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